



*Prepared for*

**Georgia Power Company**  
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**2019 FIRST SEMIANNUAL  
GROUNDWATER MONITORING AND  
CORRECTIVE ACTION REPORT  
PLANT HAMMOND HUFFAKER ROAD LANDFILL**

*Prepared by*



**engineers | scientists | innovators**

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**CERTIFICATION STATEMENT**

This 2019 First Semiannual Groundwater Monitoring and Corrective Action Report - Plant Hammond – Huffaker Road Landfill has been prepared in accordance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management, Rule 391-3-4-.10 Coal Combustion Residuals and Rule 391-3-4-.14 Groundwater Monitoring and Corrective Action by a qualified groundwater scientist or engineer with Geosyntec Consultants.

Geosyntec Consultants certifies that all site constituents were below the applicable Georgia maximum contaminant levels (MCL).



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## LIST OF ACRONYMS

ASD	Alternate Source Demonstration
cm/sec	centimeters per second
CCR	coal combustion residual
CFR	Code of Federal Regulations
D&O	Design and Operations
DO	dissolved oxygen
ft	feet
ft AMSL	feet above mean sea level
ft/ft	feet per foot
ft/day	feet per day
GA EPD	Georgia Environmental Protection Division
GPC	Georgia Power Company
MCL	maximum contaminant level
mg/L	milligrams per liter
NELAP	National Environmental Laboratory Accreditation Program
NTU	Nephelometric Turbidity Unit
ORP	Oxidation/Reduction Potential
Pace Analytical	Pace Analytical Services, LLC.
PE	professional engineer
PL	prediction limit
PQL	practical quantitation limit
QA/QC	quality assurance/quality control
ROS	regression on order statistics
SAR	Site Acceptability Report
SCS	Southern Company Services
SSI	statistically significant increase
SM	standard method
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

## 1.0 INTRODUCTION

Groundwater monitoring is currently conducted at the Georgia Power Company (GPC) Plant Hammond, Huffaker Road Landfill (the landfill or the site) to comply with the landfill's Solid Waste permit number 057-022D (LI) (the permit), as issued by the Georgia Environmental Protection Division (GA EPD), and in accordance with Georgia Solid Waste Management Rules for Groundwater Monitoring and Corrective Action of a municipal solid waste landfill, Rule 391-3-4.14. The landfill is also subject to the United States Environmental Protection Agency (USEPA) coal combustion residual rule (CCR Rule) [40 Code of Federal Regulations (CFR) 257 Subpart D] and the GA EPD Rules for Solid Waste Management 391-3-4-.10. Geosyntec Consultants has prepared this *2019 First Semiannual Groundwater Monitoring and Corrective Action Report* to document the semiannual groundwater monitoring event conducted in April 2019 and two verification sampling events conducted in June 2019. This report satisfies the reporting requirements of applicable GA EPD Solid Waste Management Rules (391-3-4-.14) and federal and state CCR Rule [40 CFR 257.90(e), 391-3-4-.10]. For ease of reference when discussing aspects of the CCR Rule, only the USEPA CCR rules are cited within this report.

### 1.1 Site Description and Background

The Huffaker Road Landfill is a GPC-owned property located in Floyd County approximately five miles northeast of Plant Hammond (**Figure 1**). The landfill was built between 2005 and 2007 over a closed surface clay mine, previously owned by Boral Bricks, Inc. The landfill is comprised of active Parcels A, B, and E; Parcels C and D are proposed areas for future expansion, if needed. Parcels A and B were permitted and constructed with a leachate collection system underlain by a composite liner system consisting of a minimum 24-inch compacted clay layer with a maximum hydraulic conductivity of  $1 \times 10^{-7}$  centimeters per second (cm/sec) and a 60-mil HDPE geomembrane overlaying the clay. Parcel E is located downgradient from Parcels A and B and was permitted and constructed with a minimum 24-inch compacted clay liner with a maximum hydraulic conductivity of  $1 \times 10^{-6}$  cm/sec. GA EPD approved Solid Waste Permit No. 057-022D (LI) in a letter dated May 26, 2006, and initiation of disposal operations commenced on May 5, 2008.

A groundwater monitoring plan was developed as part of the landfill's pre-construction Design and Operations (D&O) Plan and approved in September 2004 with subsequent modifications submitted to GA EPD in September 2005, April 2009, and May 2013.

Groundwater monitoring in accordance with the D&O Plan began in 2007, prior to disposal activities, and continues to date. The D&O Plan stipulated the following parameters are to be analyzed by an accredited laboratory: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc. Field parameters that are to be recorded include: pH, temperature, turbidity, dissolved oxygen, specific conductance, and oxidation-reduction potential.

Groundwater monitoring and reporting activities in accordance with 40 CFR 257.90 through 257.94 of the federal CCR Rule were initiated in 2016. Pursuant to 40 CFR 257.94(b), the eight baseline sampling events were conducted March 2016 to March 2017, with the initial detection monitoring event occurring October 2017.

GPC submitted a permit modification to GA EPD in August 2017 that expanded the analyzed parameter list stipulated by the D&O Plan to include the Appendix III and Appendix IV parameters. GA EPD approved the permit modification in a letter dated August 9, 2017 (EPD, 2017). The following 22 target parameters are currently reported in accordance with the D&O Plan and CCR Rule 40 CFR 257.94(a):

- Antimony
- Arsenic
- Barium
- Beryllium
- Boron\*
- Cadmium
- Calcium\*
- Chloride\*
- Chromium
- Cobalt
- Copper
- Fluoride\*
- Lead
- Nickel
- pH\*
- Selenium
- Silver
- Sulfate\*
- Thallium
- Total Dissolved Solids (TDS)\*
- Vanadium
- Zinc

“\*” – Denotes a Federal/Georgia CCR Rule, Appendix III parameter. pH is measured in the field.

## **1.2 Regional Geology and Hydrogeologic Setting**

The regional geology was summarized in the Southern Company Services (SCS) prepared Site Acceptability Report (SAR) (SCS, 2002) based on the work of Cressler (1970). The landfill is located in the Floyd Shale member of the Judy Mountain Syncline. The Floyd Shale is Mississippian in age and ranges from 200 to 1,200 feet thick in Floyd County. The unit is composed of clay and shale, transitioning to limestone at its base.

Boring logs presented in the SAR indicate sandy clayey silt and silty clay with rock fragments described as shale extending to depths of up to approximately 30 feet below

ground surface. Underlying this material is a medium gray to dark gray and dark olive gray, heavily to moderately weathered shale. Rock cores collected at the site are described as slightly weathered to unweathered, thinly bedded shale. Descriptions provided in the boring logs are representative of recorded observations on the Floyd Shale.

The landfill is underlain by a regional unconfined groundwater aquifer that occurs within the overburden. Groundwater recharge at the landfill is from infiltration of precipitation. Groundwater occurring in bedrock below the site is controlled by the degree of enhanced secondary permeability. In general, groundwater occurring in the bedrock is a result of water infiltrating through areas in the overburden where enhanced permeability exists. Review of the available boring logs does not identify a confined aquifer beneath the landfill.

### **1.3 Groundwater Monitoring Well Network**

The existing groundwater monitoring system meets the requirements listed in 40 CFR 257.91 and 391-3-4.14, and (1) consists of a sufficient number of wells, (2) installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer, and (3) represents the groundwater quality both upgradient of the unit (i.e., background conditions) and passing the waste boundary of the unit. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions. Pursuant to the 40 CFR 257.91, the well network was certified by a professional engineer (PE) on October 17, 2017; the certification is maintained in the site's operating records.

The certified compliance monitoring well network for the landfill consists of 17 wells installed between September 2001 and February 2007. Five monitoring well locations were designed to monitor background, upgradient groundwater quality conditions, with 12 wells installed downgradient of the landfill to serve as compliance wells. The locations of the compliance wells are presented on **Figure 2**; well construction details are listed in **Table 1**.



## **2.0 GROUNDWATER MONITORING ACTIVITIES**

The following describes monitoring-related activities performed during January through July 2019 and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with 40 CFR 257.93 and the D&O Plan.

### **2.1 Monitoring Well Installation and Maintenance**

The monitoring well network at the landfill has remained unchanged for this 2019 semiannual reporting period.

The well and piezometer networks are inspected during each groundwater monitoring event using GA EPD-based inspection criteria. Any issues identified with the wells (e.g., clogged weep holes within the outer protective casing, faded well identification signage, rusted locks and/or latches, etc.) are addressed before the following groundwater sampling event.

### **2.2 Alternate Source Demonstrations**

A statistically significant increase (SSI) of barium in compliance well GWC-10 was reported in the *Second 2018 Semi-Annual Groundwater Monitoring Report* (Geosyntec, 2019), which was submitted to GA EPD in March 2019. Pursuant to Rule 391-3-4-.14(23)(c), an Alternate Source Demonstration (ASD) was prepared that presents multiple lines of evidence to conclude that the SSI of barium is not associated with a release from the landfill, but instead associated with natural variation in the groundwater quality of well GWC-10. The completed ASD report was prepared during the reporting period covered herein and is provided in **Appendix A**.

ASDs have been previously prepared to address SSIs of the following parameters at the indicated well: chloride (GWC-8); cobalt (GWC-7); nickel (GWC-7); TDS (GWC-6 and GWC-8); and zinc (GWC-7). These ASDs have been previously provided under separate report covers.

### **2.3 Detection Monitoring**

GPC currently monitors groundwater associated with the landfill under the detection groundwater monitoring program in accordance with Solid Waste Management Rule 391-3-4-.14(22) and federal CCR Rule 40 CFR 257.94. The detection and two verification monitoring events occurred April and June 2019, respectively (**Table 2**). Groundwater

samples were collected from each compliance monitoring well shown on **Figure 2** and analyzed for the parameters stipulated by the August 2017 permit modification (Section 1.1). The analytical and statistical results of these events are discussed in Sections 3 and 4, respectively.

### 3.0 SAMPLE METHODOLOGY & ANALYSIS

The following section presents a summary of the field sampling procedures that were implemented and the groundwater sampling results that were obtained in connection with the detection monitoring program conducted during January through June 2019.

#### 3.1 Groundwater Level Measurement

Prior to a sitewide sampling event, a synoptic round of depth to groundwater level measurements are recorded from the monitoring well network and used to calculate the corresponding groundwater elevation. The calculated groundwater elevations for the April 2019 sampling event are presented in **Table 3**. The groundwater elevations observed ranged from 690.32 feet above mean sea level (ft AMSL) in well GWA-1 to 613.58 ft AMSL in well GWC-21.

The groundwater elevation data were used to prepare a potentiometric surface map for the April 2019 sampling event, which is presented on **Figure 3**. Interpretation of the potentiometric surface contours indicate that groundwater flow beneath the landfill is generally to the southeast in vicinity of Parcels A and B, and then south-southwest beneath Parcel E. These observed flow directions are consistent with previous observations.

#### 3.2 Groundwater Gradient and Flow Velocity

The groundwater hydraulic gradient beneath the landfill was calculated using the groundwater elevation data from the April 2019 event, and between two pairs of data points along interpreted groundwater flow paths to account for changing flow directions across the site, as discussed in Section 3.1. For Parcels A and B, the hydraulic gradient was calculated between the 685 ft AMSL and 645 ft AMSL potentiometric iso-contours shown on **Figure 3**. The gradient for Parcel E was calculated between the 640 ft AMSL potentiometric contour and well GWC-20. The general trajectory of the flow paths used in the calculations are shown on **Figure 3**.

The hydraulic gradient underneath Parcels A and B was calculated to be 0.024 feet per foot (ft/ft), whereas the hydraulic gradient underneath Parcel E equaled 0.017 ft/ft. The supporting calculations are presented in **Table 4**.

The horizontal groundwater flow velocity was calculated using Darcy's Law, as follows:

$$V = \text{linear velocity} = \frac{K\Delta h}{n\Delta l}$$

where:

$K$  = hydraulic conductivity

$$\frac{\Delta h}{\Delta l} = \text{hydraulic gradient} = \frac{(h_1 - h_2)}{L}$$

$n$  = effective porosity

$h_1$  and  $h_2$  = groundwater elevation at location 1 and 2

$L$  = distance between location 1 and 2

Prior site investigations indicate groundwater within the unconfined aquifer flows predominantly through the heavily to moderately weathered shale layer (SCS, 2002). The average hydraulic conductivity for this zone [ $8.74 \times 10^{-5}$  centimeters per second (cm/sec), or 0.248 feet per day (ft/day)] was computed from slug test data derived from five locations across the site (SCS, 2002). An estimated effective porosity of 0.20 is used for the flow rate calculation, based on interpreted values for weathered shale (Freeze/Cherry, 1979). With these variables determined, and accounting for the hydraulic gradients discussed above, the groundwater flow velocity underneath Parcels A and B was calculated to be 0.030 ft/day. Similarly, the flow velocity underneath Parcel E was calculated to be 0.021 ft/day. The flow velocity calculations are provided in **Table 4**.

### **3.3 Groundwater Sampling Procedures**

Groundwater samples were collected from the compliance monitoring well network in accordance with 40 CFR 257.93(a) and the D&O Plan using low-flow purging techniques performed with a peristaltic pump with disposable polyethylene tubing. The intake point of the tubing was lowered to the midpoint of the well screen. Each well was sampled with a new segment of tubing; all tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

A SmarTroll<sup>®</sup> (In-Situ<sup>®</sup> field instrument) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to

sampling. Turbidity was monitored using a LaMotte 2020we® turbidity meter. Groundwater samples were collected once the following stabilization criteria were met:

- $\pm 0.1$  standard units for pH
- $\pm 5\%$  for specific conductance
- $\pm 0.2$  milligrams per liter (mg/L) or 10% for DO > 0.5 mg/L (whichever is greater). No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measured less than 10 nephelometric turbidity units (NTU)

Following purging, once stabilization was achieved, samples were collected in laboratory-supplied plastic bottles. Sample bottles were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC. in Norcross, Georgia following chain-of-custody protocol. The field sampling forms generated during the April and June 2019 monitoring events are provided in **Appendix B**.

### **3.4 Laboratory Analyses**

Laboratory analyses were performed by Pace Analytical Services, LLC. (Pace Analytical), which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Pace Analytical maintains a NELAP certification for the permit specified parameters analyzed for this project. Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in **Appendix B**.

The groundwater analytical results from the April 2019 detection monitoring event and the two June verification events are summarized in **Table 5**. The Pace Analytical laboratory reports associated with these results are provided in **Appendix B**. The pH field measurements recorded during the detection monitoring and verification sampling events are also provided in **Table 5**. The 2019 analytical data indicate that all reported constituents were below the applicable Georgia maximum contaminant levels (MCL).

### **3.5 Quality Assurance and Quality Control**

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events at the rate of one QA/QC sample per 10 groundwater samples and included the following: field duplicates, equipment blanks, and field blank samples. QA/QC samples were collected in laboratory-provided bottles and submitted

under the same chain of custody as the primary samples for analysis of the same parameters by Pace Analytical.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The associated data validation report is provided in **Appendix B** with the laboratory reports.

## 4.0 STATISTICAL ANALYSES

The following section presents a summary of the statistical approach applied to assess the April 2019 groundwater data for potential SSIs of permit stipulated parameters reported in downgradient compliance wells relative to the available historical dataset. Because the landfill is currently independently managed under both Georgia's Solid Waste Management Rule 391-3-4.14 and Georgia's CCR Rule 391-3-4.10, which references the federal CCR Rule, two datasets are statistically evaluated per semiannual monitoring event. One dataset contains Appendix III parameters, which is applicable to both of the beforementioned rule sets. The other dataset contains the D&O-specified parameters, applicable to Rule 391-3-4.14.

Statistical analysis of the April 2019 groundwater data for Appendix III parameters was performed pursuant to 40 CFR 257.93 and in accordance with the PE-certified statistical method. Statistical analysis of the April 2019 groundwater data for D&O parameters was performed pursuant to Rule 391-3-4-.14 and in accordance with the *Background Data Screening & Recommended Statistical Methods* report prepared by Groundwater Stats Consulting in August 2019. The method proposed in the August 2019 report differed from that required by the D&O Plan. GPC submitted a minor permit modification request to GA EPD to change the statistical methods; the minor modification request was approved by GA EPD in a letter dated August 20, 2019 (EPD, 2019).

### 4.1 Statistical Methods

The PE-certified statistical approach used to evaluate groundwater data for the landfill for Appendix III parameters is the intrawell prediction limit (PL) method combined with a 1-of-3 resample plan. The intrawell PLs utilize historical data from within a given well to establish a statistical limit for comparison of compliance data at the same well. In this case, the data from the eight monitoring events conducted between March 2016 and March 2017 to establish background conditions. An "initial exceedance" occurs when any data from the well exceeds the PL.

If data from a detection monitoring sampling event initially exceed the PL, the resampling strategy will be used to verify the result. In the 1-of-3 resampling, up to two independent resamples may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If both resamples exceed the PL, the initial exceedance is verified, and an SSI of that Appendix III parameter is determined. When a single resample result does not verify the initial result, and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is treated as a confirmed exceedance.

The intrawell PL statistical approach was also used to evaluate groundwater data for the landfill for D&O parameters, however with a 1-of-2 resample plan instead of the 1-of-3 plan (Groundwater Stats, 2019). The dataset used to derive the PLs is larger since the D&O parameters have been monitored since 2007; the data encompass sampling events from March 2007 to October 2018. In the 1-of-2 resampling, up to one independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified.

The following guidance is also applicable to the statistical analysis method:

- Statistical analyses are not performed on analytes containing 100% non-detects (USEPA, 2009).
- When data contain less than or equal to 15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, a non-detect adjustment such as the Kaplan-Meier or Regression on Order Statistics (ROS) method for adjustment of the mean and standard deviation will be used prior to constructing a parametric PL.
- Nonparametric PLs are used on data containing greater than 50% non-detects.

The Sanitas<sup>TM</sup> groundwater statistical software was used to perform the statistical analyses. Sanitas<sup>TM</sup> is a decision-support software package, that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009).

Regarding the frequency of updating the PLs, Section 5.3 of the Unified Guidance recommends recalculating the PLs every 2 to 3 years once an adequate data set (i.e., 4 or more new measurements) is compiled for statistical comparison with the existing data set developed from the initial 8 background monitoring events (i.e., conducted between March 2016 and March 2017). Per this logic, the PLs for Appendix III parameters will be recalculated after the second 2019 semiannual sampling event. The PLs for the D&O parameters will be recalculated after the second 2020 semiannual sampling event, which corresponds to 4+ events after the October 2018 sampling event.



## 4.2 Statistical Analysis Results

A summary of the Sanitas<sup>™</sup> outputs for the April 2019 sampling event, and the associated verification sampling events, is provided in **Appendix C**. **Table C-1** of Appendix C compares the 2019 groundwater data to PLs for Appendix III parameters, whereas the D&O parameter PLs are presented in **Table C-2**. However, prior to the derivation of the PLs, the background data were assessed for trends and outliers.

The background data for D&O parameters were established after evaluation of the historical dataset (March 2007 to October 2018) with the exception of special cases for selected well/parameter combinations. Data with statistically significant trends are typically not included as part of the background data used for construction of prediction limits. After testing with the Sen's Slope/Mann Kendall method, several records were truncated in order to utilize more recent measurements that do not contain trending data which results in statistical limits that better represent present-day conditions. A list of special cases where the record was truncated for construction of statistical limits is provided in **Appendix C**.

Time series plots generated by Sanitas<sup>™</sup> were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for D&O parameters were formally tested using Tukey's box plot method. Several values identified by Tukey's method were flagged in the database. Several other values were flagged in addition to those identified by Tukey's because the values were higher than all remaining concentrations and would cause the statistical limits to be elevated. A summary of all flagged values is included in **Appendix C**.

Based on the statistical results, **Table C-1** identifies initial PL exceedances for the following Appendix III parameters at the indicated wells: calcium (GWC-8); chloride (GWC-8); pH (GWC-8); sulfate (GWC-6, GWC-20); and TDS (GWC-8). As discussed in Section 2.2, ASDs have been prepared that account for the elevated chloride and TDS concentrations in well GWC-8. Two verification groundwater sampling events were collected in June 2019 in accordance with the 1-of-3 resampling program. Verification results did not confirm the initial PL exceedances of calcium in GWC-8 or sulfate in GWC-6. The data indicate Appendix III SSIs of pH in GWC-8 and sulfate in GWC-20.

The statistical analyses of the D&O parameters indicated a single initial PL exceedance of barium in well GWC-8 (**Table C-2**). The result of the verification sample confirmed the PL exceedance, thereby identifying an SSI of barium in GWC-8.

Statistical analyses of the April and June 2019 data have identified that the following parameters are SSIs for the following wells under the indicated program:

Federal/State CCR Program – Appendix III parameters (40 CFR 257.94; Rule 391-3-4.10):

- pH: GWC-8
- Sulfate: GWC-20

Georgia SW Program – D&O parameters (inclusive of Appendix III parameters) (Rule 391-3-4.14):

- Barium: GWC-8
- pH: GWC-8
- Sulfate: GWC-20

## **5.0 MONITORING PROGRAM STATUS**

Groundwater monitoring at the landfill is currently being conducted under a detection monitoring program pursuant to both the Georgia Rule 391-3-4.14(21) for solid waste management units and the federal CCR Rule 40 CFR 257.94 for CCR materials. Within 90 days of determining an SSI, GPC will either (1) prepare a demonstration that a source other than the landfill was the cause, or (2) implement assessment monitoring per Georgia Rule 391-3-4.14(24) and federal CCR Rule 40 CFR 257.95.

## 6.0 CONCLUSIONS AND FUTURE ACTIONS

This *2019 First Semiannual Groundwater Monitoring and Corrective Action Report* for GPC's Plant Hammond Huffaker Road Landfill was prepared to fulfill the requirements of both applicable federal and state CCR Rules and GA EPD Solid Waste Management Rules (40 CFR 257.90(e), 391-3-4-.10, 391-3-4-.14). Statistical evaluations of the groundwater monitoring data identified SSIs of the following parameters pursuant to the identified monitoring program.

Federal/State CCR Program – Appendix III parameters (40 CFR 257.94; Rule 391-3-4.10):

- pH: GWC-8
- Sulfate: GWC-20

Georgia SW Program – D&O parameters (inclusive of Appendix III parameters) (Rule 391-3-4.14):

- Barium: GWC-8
- pH: GWC-8
- Sulfate: GWC-20

GPC will either initiate an assessment monitoring program or prepare an alternate source demonstration within 90 days of this report.

The second 2019 semiannual groundwater monitoring event is planned for September 2019.

## 7.0 REFERENCES

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# TABLES

**Table 1**  
Monitoring Well Network Summary  
Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia

Well ID	Hydraulic Location	Installation Date	Northing <sup>(1)</sup>	Easting <sup>(1)</sup>	Top of Casing Elevation (ft AMSL)	Top of Screen Elevation (ft AMSL)	Bottom of Screen Elevation (ft AMSL)	Well Depth <sup>(2)</sup> (ft BTOC)	Screen Interval Length
GWA-1	Upgradient	9/11/2001	1565643.23	1952068.06	702.05	672.52	662.52	39.83	10
GWA-2	Upgradient	2/5/2007	1565589.74	1952641.00	681.46	665.84	655.84	25.92	10
GWA-3	Upgradient	2/6/2007	1565519.19	1953199.71	659.25	648.10	638.10	21.45	10
GWA-4	Upgradient	2/6/2007	1565518.65	1953686.93	656.87	645.66	635.66	21.51	10
GWA-11	Upgradient	7/21/2006	1564945.85	1952008.14	682.48	656.57	646.57	36.21	10
GWC-5	Downgradient	2/7/2007	1565158.40	1953566.09	649.46	638.22	628.22	21.54	10
GWC-6	Downgradient	7/20/2006	1564396.99	1953919.43	656.37	623.77	613.77	42.90	10
GWC-7	Downgradient	7/19/2006	1564078.74	1953595.62	657.05	635.23	625.23	32.12	10
GWC-8	Downgradient	7/18/2006	1564000.11	1953095.59	656.63	639.53	629.53	27.40	10
GWC-9	Downgradient	7/18/2006	1563875.99	1952393.22	659.41	617.36	607.36	52.35	10
GWC-10	Downgradient	7/20/2006	1564307.60	1951975.60	667.52	643.53	633.53	34.29	10
GWC-18	Downgradient	7/12/2006	1563319.48	1953391.01	641.30	594.65	584.65	56.95	10
GWC-19	Downgradient	7/11/2006	1562842.42	1952979.50	642.93	595.72	585.72	57.51	10
GWC-20	Downgradient	7/17/2006	1562472.09	1952332.09	625.65	601.59	591.59	34.36	10
GWC-21	Downgradient	7/12/2006	1562098.80	1951612.93	618.36	610.43	600.43	18.23	10
GWC-22	Downgradient	7/13/2006	1562778.11	1951618.87	624.92	593.17	583.17	42.05	10
GWC-23	Downgradient	7/19/2006	1563557.96	1951605.45	654.87	615.15	605.15	50.02	10

Notes:

ft AMSL = feet above mean sea level

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.

(2) Total well depth accounts for sump if data provided on well construction logs.



**Table 2**  
**Groundwater Sampling Event Summary**  
**Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia**

<b>Well ID</b>	<b>Hydraulic Location</b>	<b>Apr 5-9, 2019</b>	<b>Jun 18-19, 2019</b>	<b>Jun 27, 2019</b>	<b>Status of Monitoring Well</b>
<b>Purpose of Sampling Event:</b>		<b>Detection</b>	<b>Verification</b>	<b>Verification</b>	
GWA-1	Upgradient	D01	-	-	Detection
GWA-2	Upgradient	D01	-	-	Detection
GWA-3	Upgradient	D01	-	-	Detection
GWA-4	Upgradient	D01	-	-	Detection
GWA-11	Upgradient	D01	-	-	Detection
GWC-5	Downgradient	D01	-	-	Detection
GWC-6	Downgradient	D01	V01	-	Detection
GWC-7	Downgradient	D01	-	-	Detection
GWC-8	Downgradient	D01	V01	V02	Detection
GWC-9	Downgradient	D01	-	-	Detection
GWC-10	Downgradient	D01	-	-	Detection
GWC-18	Downgradient	D01	-	-	Detection
GWC-19	Downgradient	D01	-	-	Detection
GWC-20	Downgradient	D01	V01	V02	Detection
GWC-21	Downgradient	D01	-	-	Detection
GWC-22	Downgradient	D01	-	-	Detection
GWC-23	Downgradient	D01	-	-	Detection

Notes:

D## = Detection monitoring event number

V## = Verification event number

**Table 3**  
 Summary of Groundwater Elevations  
 Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia

Well ID	Top of Casing Elevation (ft AMSL)	Apr 8, 2019	
		Depth to Water (ft BTOC)	Groundwater Elevations (ft AMSL)
GWA-1	702.05	11.73	690.32
GWA-2	681.46	6.13	675.33
GWA-3	659.25	4.88	654.37
GWA-4	656.87	9.83	647.04
GWA-11	682.48	15.65	666.83
GWC-5	649.46	4.54	644.92
GWC-6	656.37	15.11	641.26
GWC-7	657.05	13.50	643.55
GWC-8	656.63	10.09	646.54
GWC-9	659.41	12.99	646.42
GWC-10	667.52	12.79	654.73
GWC-18	641.30	12.43	628.87
GWC-19	642.93	18.23	624.70
GWC-20	625.65	3.12	622.53
GWC-21	618.36	4.78	613.58
GWC-22	624.92	1.88	623.04
GWC-23	654.87	7.96	646.91

Notes:

ft BTOC = feet below top of casing

ft AMSL = feet above mean sea level

**Table 4**  
 Groundwater Gradient and Flow Velocity Calculations  
 Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia

Landfill Parcels	Hydraulic Gradient - April 8, 2019 Data				Groundwater Flow Velocity		
	h <sub>1</sub> (ft)	h <sub>2</sub> (ft)	Δl (ft)	Δh/Δl (ft/ft)	K (ft/d)	n	V (ft/d) <sup>(1)</sup>
A & B	685	645	1,660	0.024	0.248	0.20	0.030
E	640	622.53	1,050	0.017			0.021

Notes:

ft = feet

ft/d = feet per day

ft/ft = feet per foot

h<sub>1</sub> and h<sub>2</sub> = groundwater elevation at designated measuring points

Δh/Δl = hydraulic gradient

K = hydraulic conductivity

Δl = distance between measuring points 1 and 2

n = effective porosity

V = groundwater flow velocity

(1) Groundwater flow velocity equation:  $V = [K * (\Delta h / \Delta l)] / n$

**Table 5**  
**Summary of Groundwater Analytical Data**  
**Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia**

Well ID:	GWA-1	GWA-2	GWA-3	GWA-4	GWA-11	GWC-5	GWC-6	GWC-6	GWC-7	GWC-8	GWC-8	GWC-8	
Sample Date:	4/8/2019	4/8/2019	4/5/2019	4/8/2019	4/8/2019	4/9/2019	4/8/2019	6/19/2019	4/8/2019	4/8/2019	6/18/2019	6/27/2019	
Parameter <sup>(1,2)</sup>													
<b>D&amp;O Plan</b>	Antimony	ND	ND	ND	ND	ND	ND	--	ND	ND	--	--	
	Arsenic	ND	ND	ND (0.00035 J)	ND (0.00023 J)	ND (0.00012 J)	ND	--	0.0057	ND (0.0015 J)	--	--	
	Barium	0.031	0.15	0.13	0.047	0.031	0.067	0.15	--	0.24	0.13	0.17	
	Beryllium	ND	ND	ND	ND	ND	ND	ND	--	ND (0.000058 J)	ND	--	--
	Cadmium	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	--
	Chromium	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	--
	Cobalt	ND (0.00026 J)	ND (0.000061 J)	ND (0.00031 J)	ND (0.00044 J)	ND (0.00076 J)	ND	ND (0.00022 J)	--	ND (0.0086 J)	ND (0.0017 J)	--	--
	Copper	ND	ND (0.00029 J)	ND	ND	ND (0.0013 J)	ND	ND	--	ND (0.00025 J)	ND	--	--
	Lead	ND	ND	ND	ND	ND	ND (0.00039 J)	ND	--	ND	ND	--	--
	Nickel	ND (0.00034 J)	ND	ND (0.00075 J)	ND (0.00089 J)	ND (0.0023 J)	ND (0.00098 J)	ND (0.00032 J)	--	0.030	ND (0.00064 J)	--	--
	Selenium	ND	ND	ND	ND (0.00014 J)	ND	ND	ND	--	ND	ND	--	--
	Silver	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	--
	Thallium	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	--
Vanadium	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	--	
Zinc	ND	ND (0.0014 J)	ND (0.0013 J)	ND (0.0023 J)	ND (0.0024 J)	ND	ND (0.0013 J)	--	0.051	ND (0.0012 J)	--	--	
<b>APPENDIX III</b>	Boron	ND (0.019 J)	ND (0.071 J)	0.12	ND (0.057 J)	ND (0.034 J)	0.048	ND (0.036 J)	--	ND (0.049 J)	ND (0.055 J)	--	--
	Calcium	15.7	44.1	76.5	86.6	22.4	73.9	67.0	--	56.1	81.5	83.7	75.9
	Chloride	1.1	2.6	4.2	3.6	1.3	3.3	2.1	--	1.9	3.2	--	--
	Fluoride	ND (0.057 J)	ND (0.072 J)	0.31	ND (0.12 J)	ND (0.035 J)	ND (0.061 J)	ND	--	ND (0.17 J)	ND (0.10 J)	--	--
	pH <sup>(3)</sup>	6.86	6.79	6.77	6.82	6.61	6.72	7.00	--	6.26	6.91	6.85	7.05
	Sulfate	4.6	18.1	131	248	13.2	83.6	131	108	97.1	39.9	--	--
	TDS	91.0	209	456	522	142	371	353	--	295	438	--	--

Notes:

-- = Parameter was not analyzed

J = Indicates the parameter was estimated and detected between the method detection limit (MDL) and the reporting limit (RL)

ND = Indicates the parameter was not detected above the analytical MDL

TDS = total dissolved solids

(1) Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units).

(2) Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in Appendix B.

(3) The pH value presented was recorded at the time of sample collection in the field.

**Table 5**  
**Summary of Groundwater Analytical Data**  
**Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia**

Well ID:	GWC-9	GWC-10	GWC-18	GWC-19	GWC-20	GWC-20	GWC-20	GWC-21	GWC-22	GWC-23	
Sample Date:	4/8/2019	4/9/2019	4/9/2019	4/9/2019	4/9/2019	6/18/2019	6/27/2019	4/9/2019	4/9/2019	4/8/2019	
Parameter <sup>(1,2)</sup>											
<b>D&amp;O Plan</b>	Antimony	ND	ND	ND	ND	ND	--	--	ND	ND	ND
	Arsenic	ND	ND	ND (0.00063 J)	ND	ND	--	--	ND (0.0018 J)	ND	ND (0.00034 J)
	Barium	0.058	0.17	0.081	0.15	0.13	--	--	0.050	0.094	0.059
	Beryllium	ND	ND	ND	ND	ND	--	--	ND	ND	ND
	Cadmium	ND	ND	ND	ND	ND	--	--	ND	ND	ND
	Chromium	ND	ND	ND	ND	ND	--	--	ND	ND (0.0023 J)	ND
	Cobalt	ND (0.00041 J)	ND	ND	ND	ND	--	--	ND (0.0023 J)	ND	ND (0.00046 J)
	Copper	ND	ND	ND	ND (0.0014 J)	ND	--	--	ND	ND	ND (0.00050 J)
	Lead	ND	ND	ND	ND	ND	--	--	ND	ND	ND (0.00018 J)
	Nickel	ND (0.0021 J)	ND	ND	ND	ND	--	--	ND (0.0048 J)	ND	ND (0.0011 J)
	Selenium	ND	ND	ND	ND	ND	--	--	ND	ND	ND
	Silver	ND	ND	ND	ND	ND	--	--	ND	ND	ND
	Thallium	ND	ND	ND	ND	ND	--	--	ND	ND	ND
	Vanadium	ND	ND	ND	ND	ND	--	--	ND	ND	ND (0.00017 J)
Zinc	ND (0.0016 J)	ND	ND (0.0037 J)	ND	ND	--	--	ND (0.0041 J)	ND	ND (0.0016 J)	
<b>APPENDIX III</b>	Boron	ND (0.015 J)	ND (0.035 J)	0.12	0.17	ND (0.011 J)	--	--	ND (0.014 J)	0.063	ND (0.022 J)
	Calcium	36.3	48.8	41.4	45.8	57.1	--	--	35.4	47.3	39.8
	Chloride	1.0	1.9	1.6	1.9	1.8	--	--	2.6	1.7	1.5
	Fluoride	ND (0.058 J)	ND (0.067 J)	ND (0.10 J)	ND (0.10 J)	ND (0.056 J)	--	--	ND (0.063 J)	ND (0.063 J)	ND (0.057 J)
	pH <sup>(3)</sup>	6.72	7.22	7.48	7.40	7.26	--	--	6.46	7.49	6.88
	Sulfate	73.5	21.4	11.3	16.7	50.3	38.7	46.0	19.9	11.0	6.2
	TDS	264	213	212	253	267	--	--	167	222	191

Notes:

-- = Parameter was not analyzed

J = Indicates the parameter was estimated and detected between the method detection limit (MDL) and the reporting limit (RL)

ND = Indicates the parameter was not detected above the analytical MDL

TDS = total dissolved solids

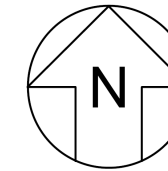
(1) Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units).

(2) Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in Appendix B.

(3) The pH value presented was recorded at the time of sample collection in the field.

# FIGURES

\\aro-01\pr1\S\GA Power\Plant Hammond\_GW Services\GIS\mxd\Huffaker\2019\CCR Report\First Semi-Annual\Figure 1\_SiteMap.mxd 8/14/2019 7:44:46 AM



Note:  
1. Aerial photograph source: Google Earth Pro, February 2017.



SCALE IN FEET

**SITE LOCATION MAP**

GEORGIA POWER COMPANY  
PLANT HAMMOND HUFFAKER ROAD LANDFILL  
FLOYD COUNTY, GEORGIA

Prepared For:  Georgia Power

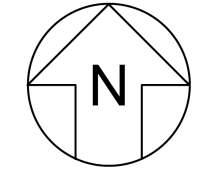
Prepared By:  Geosyntec  
consultants

KENNESAW, GA



AUGUST 2019

**FIGURE  
1**

\\aro-01\or11\S\GA Power\Plant Hammond\_GW\_Services\GIS\mxd\Huffaker\2019\CCR\_Report\First\_Semi-Annual\Figure 2\_WellMap.mxd 8/14/2019 7:49:01 AM



**LEGEND**

-  Compliance Monitoring Well
-  Landfill Underdrain Sample Point



Note:  
1. Aerial photograph source: Google Earth Pro, February 2017.



**MONITORING WELL NETWORK MAP**

GEORGIA POWER COMPANY  
PLANT HAMMOND HUFFAKER ROAD LANDFILL  
FLOYD COUNTY, GEORGIA

Prepared For:  Georgia Power

Prepared By: 

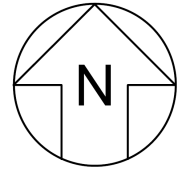
**FIGURE  
2**

KENNESAW, GA

AUGUST 2019



N:\GA Power\Plant Hammond GW Services\GIS\mxd\Huffaker\2019\CCR Report\First Semi-Annual\Figure 3 POTMap April2019.mxd 8/14/2019 7:50:10 AM



**LEGEND**

- Compliance Monitoring
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow



- Notes:
1. Water level elevation recorded on April 8, 2019. Elevation provided in feet above mean sea level (ft AMSL) in North American Vertical Datum (NAVD) 88.
  2. Aerial photograph source: Google Earth Pro, February 2017.

0 200 400 800



SCALE IN FEET

**POTENTIOMETRIC SURFACE CONTOUR  
MAP - APRIL 2019**

GEORGIA POWER COMPANY  
PLANT HAMMOND HUFFAKER ROAD LANDFILL  
FLOYD COUNTY, GEORGIA

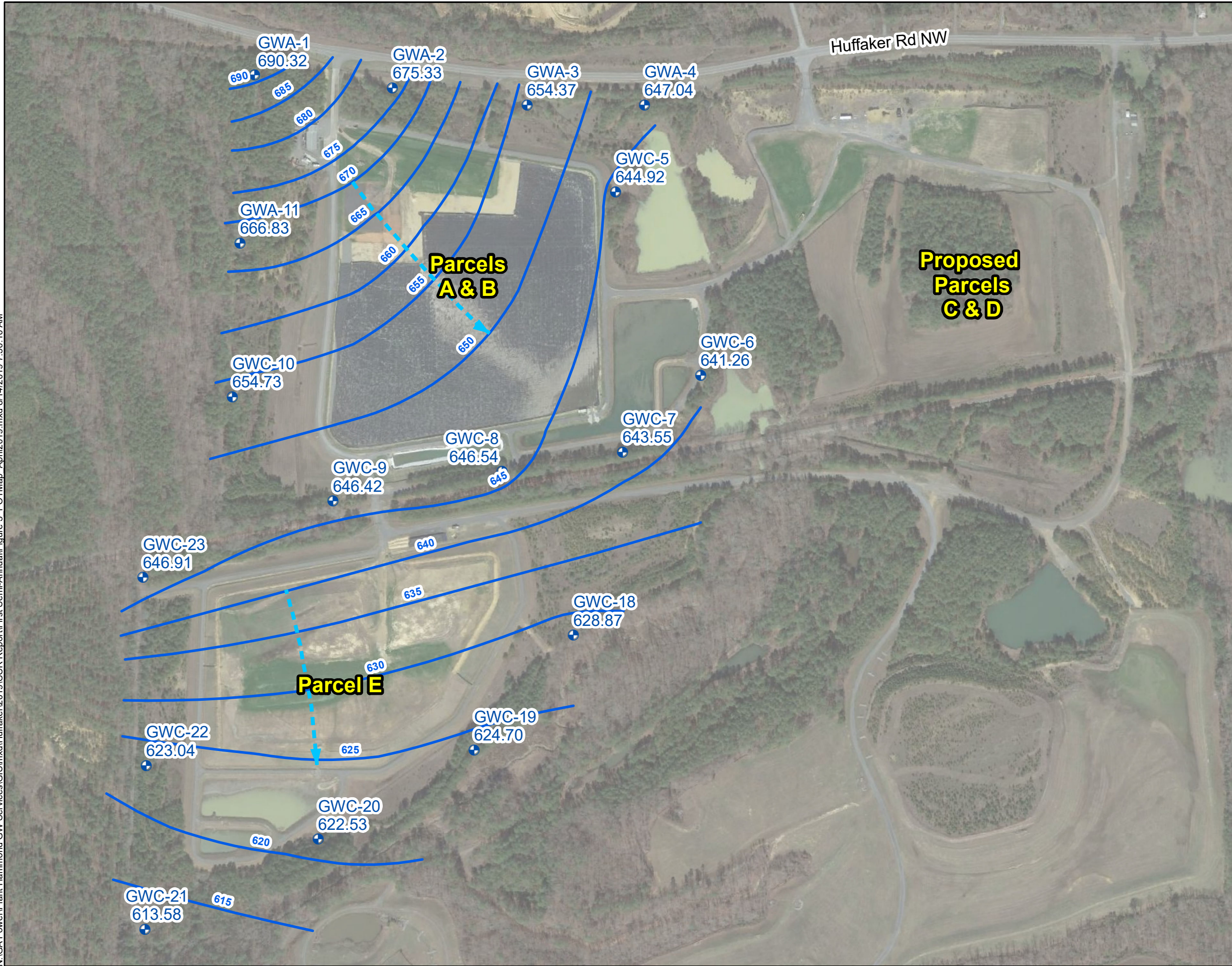
Prepared For: Georgia Power

Prepared By: Geosyntec  
consultants

**FIGURE  
3**

KENNESAW, GA

AUGUST 2019



# APPENDIX A

## Prepared Alternate Source Demonstration



*Prepared for*

**Georgia Power Company**  
241 Ralph McGill Blvd NE  
Atlanta, Georgia 30308

**ALTERNATE SOURCE  
DEMONSTRATION - BARIUM  
PLANT HAMMOND HUFFAKER ROAD LANDFILL**

*Prepared by*



**engineers | scientists | innovators**

1255 Roberts Boulevard, Suite 200  
Kennesaw, Georgia 30144

Project Number GW6581B

June 2019



## **ALTERNATE SOURCE DEMONSTRATION - BARIUM**

Plant Hammond  
Huffaker Road Landfill  
Permit No. 057-022D (LI)

June 4, 2019

A handwritten signature in black ink that reads "Herwig Goldemund".

---

Herwig Goldemund, Ph.D.  
*Senior Scientist*

A handwritten signature in black ink that reads "Whitney B Law".

---

Whitney Law, P.E.  
*Project Manager*

**Certification Statement**

**Alternate Source Demonstration  
Barium in Monitoring Well GWC-10  
Plant Hammond  
Huffaker Road Landfill  
Permit No. 057-022D (LI)  
June 4, 2019**

I certify that the above document, including interpretations and recommendations, were completed in accordance with the Georgia Environmental Protection Division's Solid Waste Rules (Chapter 391-3-4.14) by or under the direct supervision of a Georgia-registered professional geologist or a Georgia-registered professional engineer who is a qualified groundwater scientist.



Seal and Signature

June 4, 2019  
Date

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 1.3 Site Setting and Operational History ..... 2  
 1.4 Groundwater Monitoring ..... 3  
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 2. ALTERNATE SOURCE DEMONSTRATION..... 4  
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 2.3 Seasonality and Natural Variation ..... 5  
 3. CONCLUSIONS ..... 6  
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 Figure 2 Well Location Map  
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 Appendix B Summary Tables from First and Second 2018 Semi-Annual Reports  
 Appendix C Barium Time Series from Second 2018 Semi-Annual Report

## LIST OF ACRONYMS

ASD	Alternate Source Demonstration
B	boron
Ba	barium
CCR	Coal Combustion Residual
CFR	Code of Federal Regulations
Cl	chloride
cm/sec	centimeter per second
D&O	Design & Operation
EPD	Environmental Protection Division
ERM	Environmental Resources Management
GPC	Georgia Power Company
HDPE	high-density polyethylene
mg/L	milligrams per liter
SSI	statistically significant increase
PL	prediction limit
SCS	Southern Company Services, Inc.
SO <sub>4</sub>	sulfate
TDS	total dissolved solids

## 1. INTRODUCTION

### 1.1 Purpose

This document presents an alternate source demonstration (ASD) for the statistically significant increase (SSI) of barium (Ba) detected in compliance well GWC-10 located at Georgia Power Company's (GPC's) Plant Hammond Huffaker Road Landfill (the landfill). The Ba SSI was identified based on statistical evaluation of the groundwater quality data set obtained from the October 2018 sampling event. The SSI was subsequently confirmed with verification sampling events conducted in December 2018 and January 2019. This ASD has been prepared pursuant to regulations promulgated in Rule 391-3-4-.14(23)(c) of the Georgia Administrative Code, which states that "the owner or operator may demonstrate that a source other than a MSWLF (municipal solid waste landfill) unit caused the contamination or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality." This language is consistent with the requirements of the Federal Coal Combustion Residuals (CCR) Rule stipulated in 40 Code of Federal Regulations (CFR) 257.94(e)(2), which has been incorporated by reference into Rule 391-3-4-.10(23)(c) of the Georgia Administrative Code. However, given that the SSI for Ba was detected according to the list of constituents included in the groundwater monitoring plan developed as part of the landfill's Design and Operation (D&O) Plan under the Solid Waste regulations, this ASD has been prepared pursuant to Rule 391-3-4-.14(23)(c).

### 1.2 Summary of ASD

Based on review of available site data, the Ba SSI reported for well GWC-10 is not associated with a release from the landfill but is instead caused by natural variation in the groundwater quality. This ASD provides the following information supporting this conclusion:

- Potentiometric surface maps depict a consistent southeasterly groundwater flow direction and as such, monitoring well GWC-10, which is located to the west of the landfill unit (i.e., Parcels A & B), is not located in a downgradient position; the well is side-gradient and a potential release from the unit would not affect groundwater quality in vicinity of GWC-10;
- Parcels A & B are constructed with a composite liner system, including a 60-mil high-density polyethylene (HDPE) geomembrane and a leachate collection system; the landfilled CCR waste is not in contact with land surface and there is



no excess hydraulic head potentially driving CCR constituents into the subsurface; the lack of CCR-related impacts is supported by a lack of elevated concentrations of CCR Appendix III indicator parameters such as chloride (Cl), boron (B), sulfate (SO<sub>4</sub>), or total dissolved solids (TDS) in monitoring well GWC-10; and

- Unlike in other wells, Ba concentrations in monitoring well GWC-10 show a distinct seasonality (i.e., consistent up and down between each semi-annual sampling event) that is indicative of natural variation; this variation is linked to water levels within the well, which is located within a wet area of the site that experiences occasional surface water ponding within the vicinity of the well; these water level fluctuations are believed to cause the observed variability, with the wetter conditions from greater rainfall experienced in 2018 and 2019 contributing to the slightly higher Ba concentrations than have been exhibited in the past.

### **1.3 Site Setting and Operational History**

The landfill is located in Floyd County, near Rome, Georgia, approximately one mile west of the Rome city limit and approximately five miles northeast of Plant Hammond (**Figure 1**). The landfill is located within the Valley and Ridge Physiographic Province of Georgia, which is underlain by shales, dolomites, and limestones of Cambrian and Ordovician age, and the landfill itself is located in the Floyd Shale member of the Judy Mountain syncline (SCS, 2002).

Huffaker Road Landfill was built between 2005 and 2007 over a closed surface clay mine, previously owned by Boral Bricks, Inc. The landfill is comprised of active Parcels A, B, and E. Parcels A and B were permitted and constructed with a leachate collection system underlain by a composite liner system consisting of a minimum 24-inch compacted clay layer with a maximum hydraulic conductivity of  $1 \times 10^{-7}$  centimeters per second (cm/sec) and a 60-mil HDPE geomembrane overlaying the clay. Parcel E is located downgradient from Parcels A and B and was permitted and constructed with a minimum 24-inch compacted clay liner with a maximum hydraulic conductivity of  $1 \times 10^{-6}$  cm/sec (GPC, 2016). Georgia Environmental Protection Division (EPD) approved Solid Waste Permit No. 057-022D (LI) in a letter dated May 26, 2006, and initiation of disposal operations commenced on May 5, 2008. No CCRs were stored in the landfill prior to May 2008 (ERM, 2018).

#### **1.4 Groundwater Monitoring**

A groundwater monitoring plan was originally developed under the Georgia Solid Waste rules as part of the landfill's D&O Plan to comply with the requirements of Solid Waste Permit No. 057-022D (LI). The groundwater monitoring system consists of 17 wells (five upgradient wells and 12 downgradient wells) installed between September 2001 and February 2007 (ERM, 2018). The site layout and the locations of each well are presented on **Figure 2**. Groundwater monitoring at the landfill began in 2007, prior to disposal activities, and continues to date. In addition to groundwater monitoring under the D&O Plan, groundwater monitoring is also conducted under the Federal and Georgia CCR Rules, and the CCR groundwater monitoring under these rules commenced in March 2016.

As part of the D&O groundwater monitoring, semi-annual sampling events were conducted in March 2018 and October 2018. Two verification sampling events were conducted in December 2018 and January 2019 to confirm the October 2018 groundwater concentrations for Ba in well GWC-10.

#### **1.5 Basis of the Statistically Significantly Increase**

The statistical test used to evaluate the groundwater monitoring data was the intra-well prediction limit (PL) method combined with a 1-of-3 resample plan.

Statistical analysis of the October 2018 data identified an initial SSI of Ba concentrations in groundwater samples collected from well GWC-10. The initial exceedance of the 0.16 milligrams per liter (mg/L) PL (at a Ba groundwater concentration of 0.20 mg/L) was verified through subsequent resampling and analysis conducted in December 2018 (0.18 mg/L) and January 2019 (0.17 mg/L). The statistical analysis and comparison to PLs are discussed in further detail in the *Second 2018 Semi-Annual Groundwater Monitoring Report* (Geosyntec, 2019); the report was submitted to GA EPD in March 2019.

## 2. ALTERNATE SOURCE DEMONSTRATION

Based on review of site information, the SSI for Ba at compliance well GWC-10 is not related to a release from lined Parcels A and B at the landfill but is instead caused by natural variation in the groundwater quality. The following section presents information supporting this conclusion.

### 2.1 Hydraulic Location of GWC-10

**Appendix A** includes the potentiometric surface map from October 2018 extracted from the *Second 2018 Semi-Annual Groundwater Monitoring Report* (Geosyntec, 2019). As illustrated on the map, the groundwater flow direction is in a southeasterly direction. This groundwater flow direction has been consistent since the construction of the landfill. Monitoring well GWC-10 is located to the west and side-gradient of the landfill unit (i.e., Parcels A & B) and as such, would not be affected by a potential release from the landfill unit.

### 2.2 Lined Landfill and Lack of Indicator Parameters

Huffaker Road Landfill was built between 2005 and 2007 over a closed surface clay mine. Parcels A and B were permitted and constructed with a leachate collection system underlain by a composite liner system consisting of a minimum 24-inch compacted clay layer with a maximum hydraulic conductivity of  $1 \times 10^{-7}$  cm/sec and a 60-mil HDPE geomembrane overlaying the clay. The leachate collection system and the low permeability clay component underlying the membrane limits the potential for leachate migrating through potential minor membrane defects, if they were present. In addition, due to the dry-handling of the landfilled CCR materials, there is no head build-up on the liner system, making the likelihood of a release from the unit low.

**Appendix B** includes the sampling results for the first and second 2018 semi-annual groundwater sampling events. As can be seen in these two summary tables, concentrations of Appendix III indicator parameters, such as B, Cl, SO<sub>4</sub> or TDS, are low and not indicative of a release from the landfill. In fact, these concentrations are lower in well GWC-10 than in upgradient background wells GWA-3 and GWA-4, and consistent with the other three upgradient wells GWA-1, GWA-2, and GWA-11. This supports the conclusion that well GWC-10 does not indicate a leachate release.

### **2.3 Seasonality and Natural Variation**

Ba concentrations in monitoring well GWC-10 show a distinct seasonality (i.e., consistent up and down between each semi-annual sampling event) that is indicative of natural variation. **Appendix C** includes time series plots for Ba concentrations in wells within the monitoring well network of the landfill going back to 2007. These plots were extracted from the *Second 2018 Semi-Annual Groundwater Monitoring Report* (Geosyntec, 2019).

In the case of well GWC-10 this variation in Ba concentrations appears to be linked to water levels within the well. **Figure 3** depicts the relationship between water levels and Ba concentrations in this well since the initiation of the CCR monitoring program in early 2016. As can be seen on this figure, as water levels rise, Ba concentrations are generally also increasing. Well GWC-10 is located within a wet area of the site that experiences occasional surface water ponding within the vicinity of the well. These water level fluctuations are believed to cause the observed variability in Ba concentrations, with the recent wet winter conditions during late 2018 and early 2019 contributing to the slightly higher Ba concentrations than have been observed in the past.

### 3. CONCLUSIONS

Statistical analysis of the October 2018 data identified an initial SSI of Ba concentrations in groundwater samples collected from well GWC-10. The initial exceedance was verified through subsequent resampling and analysis conducted in December 2018 and January 2019. The following lines of evidence have been provided to demonstrate that the Ba SSI reported for well GWC-10 is not due to a release from the landfill, but rather associated with natural variation.

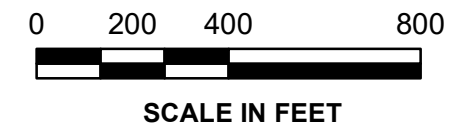
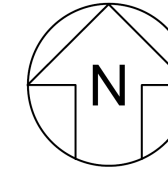
- Hydraulic Location:
  - Potentiometric surface maps depict a consistent southeasterly groundwater flow direction and as such, monitoring well GWC-10, which is located to the west of the landfill unit (i.e., Parcels A & B), is not located in a downgradient position; the well is side-gradient and a potential release from the unit would not affect groundwater quality at that location.
- Lined Landfill and Lack of Indicator Parameters:
  - Parcels A & B are constructed with a composite liner system, including a 60-mil HDPE geomembrane and a leachate collection system; the landfilled CCR waste is not saturated and there is no excess hydraulic head potentially driving CCR constituents into the subsurface; the absence of a CCR release is supported by a lack of concentration increases over background UPLs of CCR Appendix III indicator parameters such as Cl, B, SO<sub>4</sub>, or TDS in monitoring well GWC-10.
- Seasonality and Natural Variation:
  - Unlike in other wells, Ba concentrations in monitoring well GWC-10 show a distinct seasonality (i.e., consistent up and down between each semi-annual sampling event) that is indicative of natural variation; this variation is linked to water levels within the well, which is located within a wet area of the site that experiences occasional surface water ponding within the vicinity of the well; these water level fluctuations are believed to cause the observed variability, with the recent wet winter conditions contributing to the slightly higher Ba concentrations.

#### 4. REFERENCES

- ERM (2018). 2017 Annual Groundwater Monitoring and Corrective Action Report, Plant Hammond Huffaker Road Landfill, Permit No. 057-022D (LI). January 31, 2018.
- Georgia Power Company (2016). Initial Written Closure Plan; 40 C.F.R. Part 257.102. Huffaker Road (Plant Hammond) Private Industrial Landfill (Huffaker Road Landfill). Georgia Power Company.
- Geosyntec Consultants (2019). Second 2018 Semi-Annual Groundwater Monitoring Report, Plant Hammond Huffaker Road Landfill. March 2019.
- Southern Company Services, Inc. (2002). Plant Hammond Proposed Huffaker Road Coal Combustion By-Products Storage Facility Site Acceptability Report. Birmingham, Alabama: Earth Science and Environmental Engineering.
- United States Environmental Protection Agency (2015). Hazardous and Solid Waste Management Systems; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule, 40 CFR Parts 257 and 261, Federal Register, Vol. 80, No. 74, April 17, 2015, pp.21302-21501

# FIGURES

N:\GA Power\Plant Hammond GW Services\2018\GIS\mxd\Huffaker\CCR annual\2018\Figure1\_SiteMap\_v1.mxd 12/17/2018 10:39:34 AM



**SITE LOCATION MAP**

GEORGIA POWER COMPANY  
 PLANT HAMMOND HUFFAKER ROAD LANDFILL  
 FLOYD COUNTY, GEORGIA

Prepared For:  Georgia Power

Prepared By:  Geosyntec  
 consultants

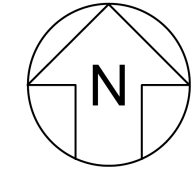
KENNESAW, GA

JUNE 2019



**FIGURE  
 1**



N:\GA Power\Plant Hammond GW Services\2018\GIS\mxd\Huffaker\CCR annual\2018\Figure2 WellMap\_V1.mxd 12/12/2018 6:12:56 PM



**LEGEND**

-  Landfill Monitoring Well
-  Landfill Underdrain Sample Point



SCALE IN FEET

**WELL LOCATION MAP**

GEORGIA POWER COMPANY  
PLANT HAMMOND HUFFAKER ROAD LANDFILL  
FLOYD COUNTY, GEORGIA

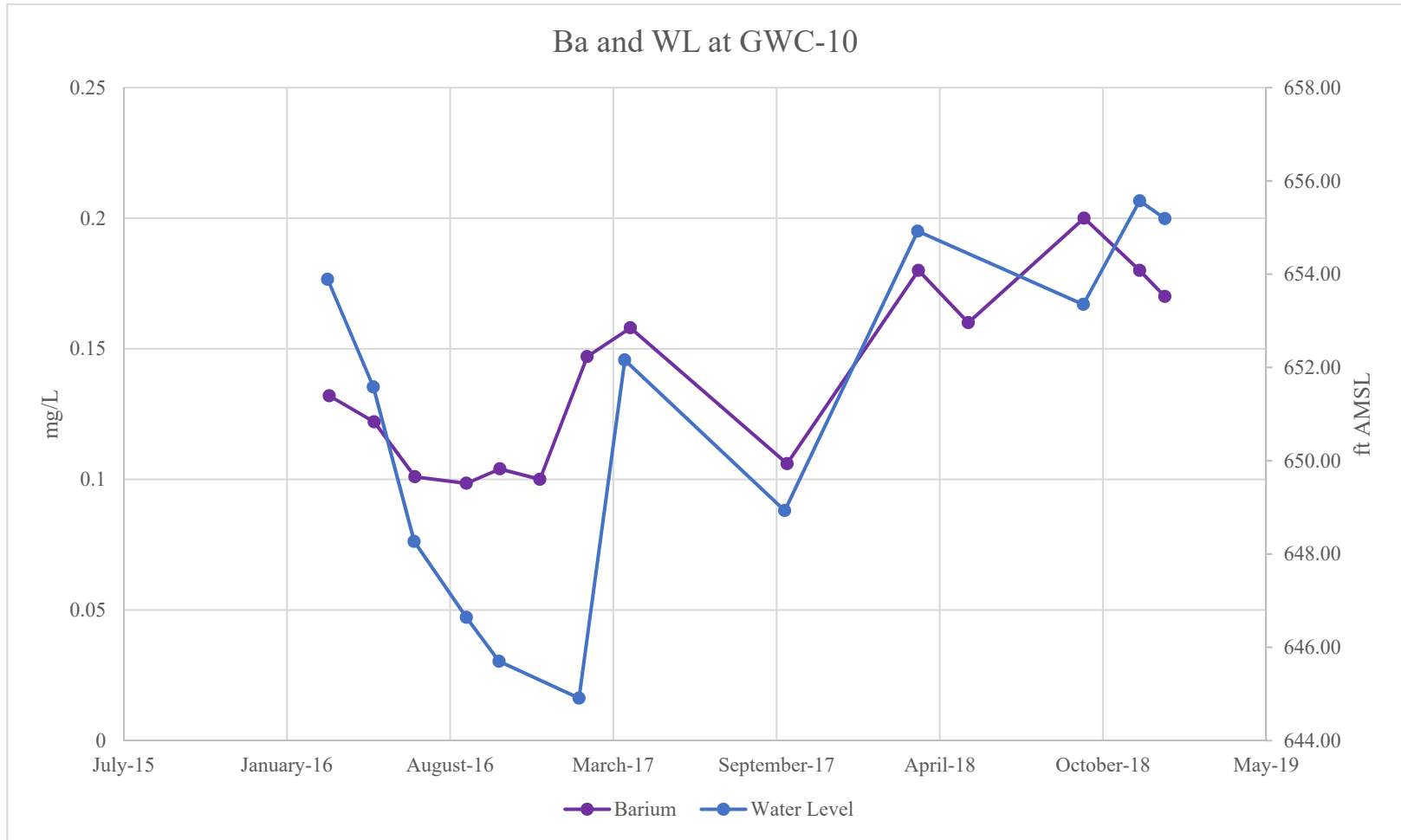
Prepared For:  Georgia Power

Prepared By:  Geosyntec  
consultants

KENNESAW, GA

JUNE 2019

**FIGURE**  
**2**



**Time Series Chart - Barium Concentration and Water Level at GWC-10**

Georgia Power Company  
 Plant Hammond Huffaker Road Landfill  
 Floyd County, Georgia



KENNESAW, GA

JUNE 2019

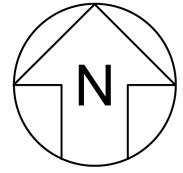
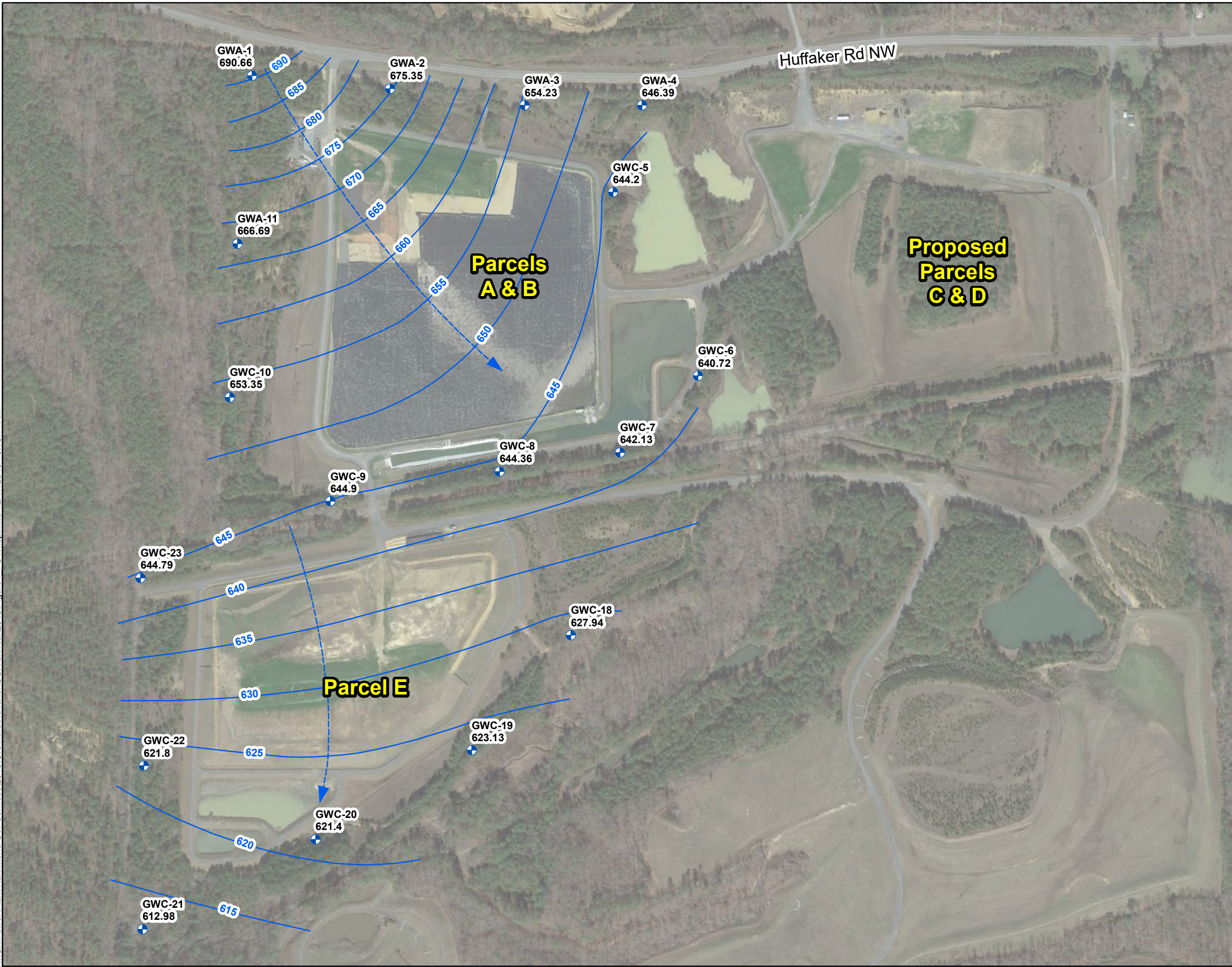
**Figure**

**3**




## APPENDIX A

Potentiometric Surface Map from Second  
2018 Semi-Annual Report

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**LEGEND**

-  Monitoring Well and Groundwater Elevation (3 October 2018)
-  Groundwater Elevation Iso-Contour (ft AMSL)
-  Approximate Groundwater Flow Direction



**Notes:**

1. Aerial Photograph Google Earth, February 2017.
2. Elevation provided in feet above mean sea level (ft AMSL) in North American Vertical Datum (NAVD) 88.



SCALE IN FEET

**POTENTIOMETRIC SURFACE  
CONTOUR MAP - OCTOBER 2018**

GEORGIA POWER COMPANY  
PLANT HAMMOND HUFFAKER ROAD LANDFILL  
ROME, FLOYD COUNTY, GEORGIA

Prepared For:  Georgia Power

Prepared By:  Geosyntec  
consultants

**FIGURE  
4**

KENNESAW, GA    JANUARY 2019

## APPENDIX B

### Summary Tables from First and Second 2018 Semi-Annual Reports

**Table 4**  
Groundwater Analytical Results  
Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia

Well ID	GWA-1	GWA-2	GWA-3	GWA-4	GWA-11	GWC-5	GWC-6	GWC-6 (resample)	GWC-7	GWC-8	GWC-8 (resample)	GWC-9	GWC-10	GWC-10 (resample)	GWC-18	GWC-18 (resample)	GWC-19	GWC-20	GWC-21	GWC-22	GWC-23	
Sample date	3/14/2018	3/14/2018	3/15/2018	3/15/2018	3/15/2018	3/16/2018	3/16/2018	5/16/2018	3/15/2018	3/14/2018	5/16/2018	3/15/2018	3/15/2018	5/15/2018	3/16/2018	5/16/2018	3/15/2018	3/16/2018	3/15/2018	3/15/2018	3/15/2018	
Parameter <sup>(1)</sup>	DWS <sup>(2)</sup>																					
Antimony	<b>0.006</b>	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	NA	<0.0030	<0.0030	NA	<0.0030	<0.0030	NA	<0.0030	NA	<0.0030	<0.0030	<0.0030	<0.0030	
Arsenic	<b>0.01</b>	<0.0050	<0.0050	0.00066 J	0.0014 J	<0.0050	<0.0050	<0.0050	NA	0.0037 J	0.00064 J	NA	<0.0050	<0.0050	NA	<0.0050	NA	<0.0050	<0.0050	<0.0050	<0.0050	
Barium	<b>2</b>	0.039	0.17	0.17	0.04	0.031	0.091	0.17	NA	0.15	0.1	NA	0.062	0.18	0.16	0.074	NA	0.14	0.12	0.086	0.096	0.053
Beryllium	<b>0.004</b>	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	NA	<0.0030	<0.0030	NA	<0.0030	<0.0030	NA	<0.0030	NA	<0.0030	<0.0030	<0.0030	<0.0030	
Cadmium	<b>0.005</b>	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NA	<0.0010	<0.0010	NA	<0.0010	<0.0010	NA	<0.0010	NA	<0.0010	<0.0010	<0.0010	<0.0010	
Chromium	<b>0.1</b>	0.016	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	
Cobalt	<b>None</b>	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	0.014	<0.010	NA	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	
Copper	<b>1.0*</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	<0.0050	<0.0050	NA	<0.0050	<0.0050	NA	<0.0050	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0016 <sup>(4)</sup>
Lead	<b>0.015</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	<0.0050	<0.0050	NA	<0.0050	<0.0050	NA	<0.0050	NA	<0.0050	<0.0050	<0.0050	<0.0050	
Nickel	<b>0.1</b>	<0.0050	<0.0050	<0.0050	0.0024 J	0.0026 J	<0.0050	<0.0050	NA	0.057	<0.0050	NA	0.0023 J	<0.0050	NA	<0.0050	NA	<0.0050	<0.0050	0.0026 J	<0.0050	0.0010 J
Selenium	<b>0.05</b>	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	
Silver	<b>0.1*</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	<0.0050	<0.0050	NA	<0.0050	<0.0050	NA	<0.0050	NA	<0.0050	<0.0050	<0.0050	<0.0050	
Thallium	<b>0.002</b>	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NA	<0.0010	<0.0010	NA	<0.0010	<0.0010	NA	<0.0010	NA	<0.0010	<0.0010	<0.0010	<0.0010	
Vanadium	<b>None</b>	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	
Zinc	<b>5.0*</b>	0.0032 J	0.0023 J	0.0028 J	0.0041 J	0.0042 J	<0.010	<0.0029 <sup>(4)</sup>	NA	0.12	0.0053 J	NA	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010	0.0053 J	<0.010	0.0039 J
Boron	<b>None</b>	0.019 J	0.075	0.14	0.043	0.037 J	0.047	0.044	0.042	0.053	0.024 J	NA	0.013 J	0.038 J	NA	0.12	NA	0.17	<0.016 <sup>(4)</sup>	0.025 J	0.070	0.051
Calcium	<b>None</b>	<25.0	39.5	83.5	69.9	<25.0	78.1	66.9	NA	43.4	58.8	NA	35.3	52.4	48.4	45.9	40	43.3	53.4	62.8	46.8	39.8
Chloride	<b>250*</b>	1.2	2.4	3.8	1.7	1.6	3.2	2.1	NA	1.9	2.1	NA	1.3	2.0	1.4	1.5	NA	1.9	1.9	3.6	1.7	1.6
Fluoride	<b>4</b>	<0.30	<0.30	<0.30	0.40	<0.30	<0.30	<0.30	NA	0.37	0.40	0.32	<0.30	<0.30	NA	<0.30	NA	<0.30	<0.30	<0.30	<0.30	<0.30
pH <sup>(3)</sup>	<b>None</b>	6.66	6.76	6.88	7.11	6.48	6.72	6.80	NA	6.05	7.28	NA	6.66	7.08	NA	7.51	NA	7.54	7.1	7.01	7.50	7.05
Sulfate	<b>250*</b>	5.1	13.9	119	167	12.2	77.4	93.6	NA	118	36.8	NA	57.8	33.9	29.1	11.7	NA	14.8	37.5 J <sup>(4)</sup>	38	8.2	14.0
TDS	<b>500*</b>	99.0	204	448	381	115	390	317	NA	254	263 J <sup>(4)</sup>	NA	280	216	NA	199	NA	213	216	219	190	169

Notes:  
 < = Indicates that analyte was not detected above the laboratory Project Quantification Limit (PQL).  
 J = Indicates that analyte was estimated and detected between the laboratory Method Detection Limit and PQL.  
 NA = Not Analyzed  
 (1) Parameters reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units); metals analyzed by EPA Method 6020B, anions analyzed by EPA Method 300.0, and TDS analyzed by SM2540C.  
 (2) Unless noted otherwise, the concentrations are compared against the Georgia (GA) Primary Drinking Water Standard (DWS) (GA Rule 391-3-5-.18), and equals the Federally mandated Maximum Contaminant Level (MCL). Secondary GA DWS are denoted with a single asterisk ("\*") and based on GA Rule 391-3-5.19. No MCL is established for lead; the DWS presented represents the corresponding EPA action level.  
 (3) The pH value presented was recorded at the time of sample collection in the field.  
 (4) Value revised in accordance with data validation report (see Appendix A2).

**Table 4**  
Groundwater Analytical Results  
Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia

Well ID	GWA-1	GWA-2	GWA-3	GWA-4	GWA-11	GWC-5	GWC-6	GWC-7	GWC-8	GWC-8 (resample)	GWC-9	GWC-9 (resample)	GWC-10	GWC-10 (resample)	GWC-10 (resample)	GWC-18	GWC-19	GWC-20	GWC-20 (recheck)	GWC-21	GWC-21 (resample)	GWC-22	GWC-23	
Sample date	10/4/2018	10/4/2018	10/4/2018	10/4/2018	10/4/2018	10/4/2018	10/4/2018	10/4/2018	10/4/2018	12/11/2018	10/5/2018	12/11/2018	10/4/2018	12/11/2018	1/11/2019	10/5/2018	10/4/2018	10/5/2018	12/11/2018	10/4/2018	12/11/2018	10/4/2018	10/5/2018	
Parameter <sup>(1)</sup>	DWS <sup>(2)</sup>																							
Antimony	0.006	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	NA	<0.0030	NA	<0.0030	NA	NA	<0.0030	<0.0030	<0.0030	NA	<0.0030	NA	<0.0030	<0.0030	
Arsenic	0.01	<0.0050	<0.0050	0.00080 J	<0.0050	<0.0050	<0.0050	<0.0050	0.0049 J	<0.0050	<0.0050	NA	<0.0050	NA	NA	<0.0050	<0.0050	<0.0050	NA	0.0034 J	NA	<0.0050	<0.0050	
Barium	2	0.039	0.18	0.16	0.050	0.033	0.084	0.19	0.080	0.11	NA	0.070	NA	0.20	0.18	0.17	0.081	0.16	0.12	NA	0.079	NA	0.10	0.065
Beryllium	0.004	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.00020 J	<0.015	NA	<0.0030	NA	<0.0030	NA	NA	<0.0030	<0.0030	<0.0030	NA	<0.0030	NA	<0.0030	<0.0030
Cadmium	0.005	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NA	<0.0010	NA	<0.0010	NA	NA	<0.0010	<0.0010	0.00011 J	NA	<0.0010	NA	<0.0010	<0.0010
Chromium	0.1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	NA	NA	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010
Cobalt	None	0.00058 J	<0.010	<0.010	<0.010	0.00072 J	<0.010	<0.010	0.024	<0.010	NA	<0.010	NA	<0.010	NA	NA	<0.010	<0.010	<0.010	NA	0.0065 J	NA	<0.010	0.00058 J
Copper	1.0*	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NA	<0.025	NA	<0.025	NA	NA	<0.025	<0.025	<0.025	NA	<0.025	NA	<0.025	<0.025
Lead	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	<0.0050	NA	<0.0050	NA	NA	<0.0050	<0.0050	<0.0050	NA	<0.0050	NA	<0.0050	0.00042 J
Nickel	0.1	<0.010	<0.010	<0.010	0.0013 J	0.0023 J	<0.010	<0.010	0.11	<0.010	NA	0.0025 J	NA	<0.010	NA	NA	<0.010	<0.010	<0.010	NA	0.012	0.0052 J	<0.010	0.0014 J
Selenium	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	NA	NA	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010
Silver	0.1*	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	NA	NA	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010
Thallium	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NA	<0.0010	NA	<0.0010	NA	NA	<0.0010	<0.0010	<0.0010	NA	<0.0010	NA	<0.0010	<0.0010
Vanadium	None	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	NA	NA	<0.010	<0.010	<0.010	NA	<0.010	NA	<0.010	<0.010
Zinc	5.0*	0.003 J	<0.0041*(4)	<0.0043*(4)	0.0058 J	<0.0046*(4)	<0.0028*(4)	<0.0039*(4)	0.22	0.0031 J	NA	<0.0044*(4)	NA	<0.0033*(4)	NA	NA	<0.0029*(4)	<0.013*(4)	<0.010	NA	<0.0077*(4)	NA	<0.0030*(4)	<0.0048*(4)
Boron	None	0.021 J	0.082	0.16	0.10	0.035 J	0.066	0.038 J	0.048	0.047 J	NA	0.017 J	NA	0.038 J	NA	NA	0.15	0.17	0.017 J	NA	0.029 J	NA	0.065	0.039 J
Calcium	None	15.9 J	41.7	75.2	77.8	21.3 J	73.0	65.5	26.1	264	64.3	37.8	NA	51.2	NA	NA	39.6	43.7	52.7	NA	48.6	NA	50.4	39.3
Chloride	250*	1.4	2.5	3.4	6.1	1.8	3.2	2.2	2.0	2.3	NA	1.6	NA	2.1	1.9	NA	1.5	2.0	2.2	NA	2.4	NA	1.7	1.6
Fluoride	4	0.17 J	0.25 J	0.24 J	0.24 J	0.15 J	0.16 J	0.17 J	0.19 J	0.28 J	NA	0.18 J	NA	0.16 J	NA	NA	0.21 J	0.21 J	0.17 J	NA	0.15 J	NA	0.14 J	0.18 J
pH <sup>(3)</sup>	None	6.92	6.62	6.62	6.72	6.66	6.52	6.93	5.92	7.22	NA	6.41	NA	7.26	NA	NA	7.57	7.44	7.07	7.16	6.33	NA	7.52	6.97
Sulfate	250*	5.2	17.4	117	209	15.6	90.3	137	167	45.4	NA	81.9	73.6 J <sup>(4)</sup>	29.5	NA	NA	10.6	15.9	38.9	NA	19.3	NA	6.4	9.3
TDS	500*	112	233	472	490	135	385	371	287	292	NA	236	NA	222	NA	NA	235	231	256	NA	152	NA	215	210

Notes:

< = Indicates that analyte was not detected above the laboratory Project Quantification Limit (PQL).

J = Indicates that analyte was estimated and detected between the laboratory Method Detection Limit and PQL.

< \* = Indicates that analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

NA = Not Analyzed

(1) Parameters reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units); metals analyzed by EPA Method 6020B, anions analyzed by EPA Method 300.0, and TDS analyzed by SM2540C.

(2) Unless noted otherwise, the concentrations are compared against the Georgia (GA) Primary Drinking Water Standard (DWS) (GA Rule 391-3-5-.18), and equals the Federally mandated Maximum Contaminant Level (MCL).

Secondary GA DWS are denoted with a single asterisk ("\*") and based on GA Rule 391-3-5.19. No MCL is established for lead; the DWS presented represents the corresponding EPA action level.

(3) The pH value presented was recorded at the time of sample collection in the field.

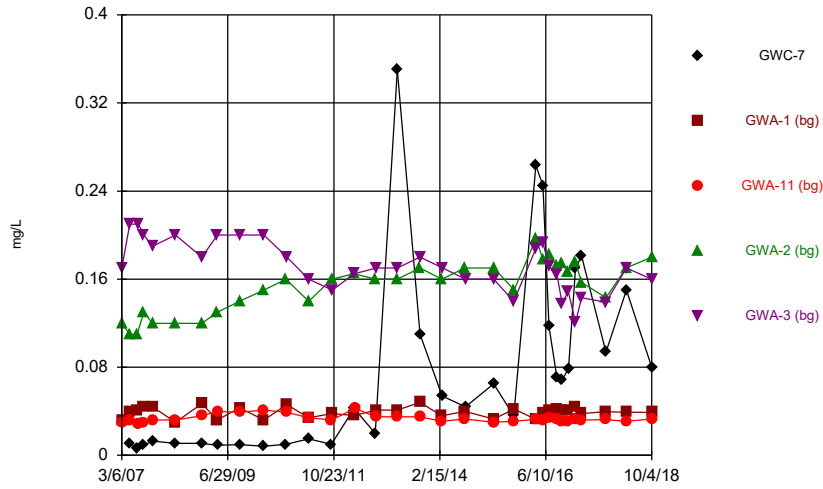
(4) Value revised in accordance with data validation report (see Appendix A2).

## APPENDIX C

Barium Time Series from Second 2018  
Semi-Annual Report

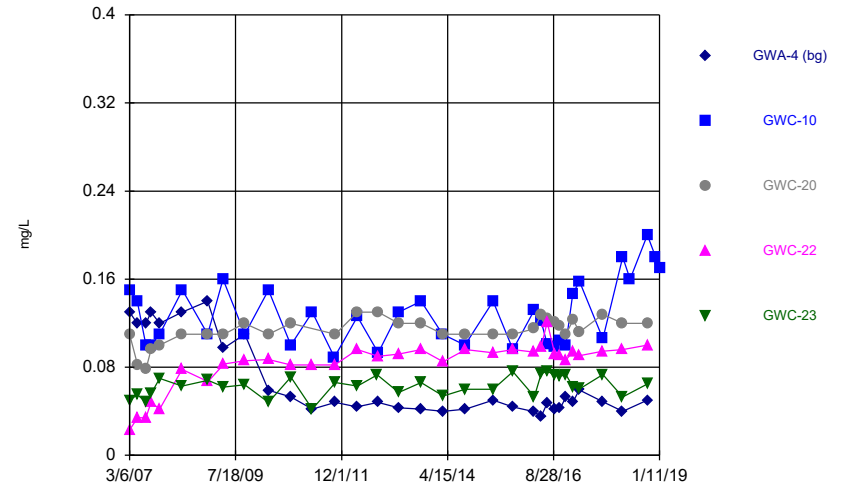


### Time Series



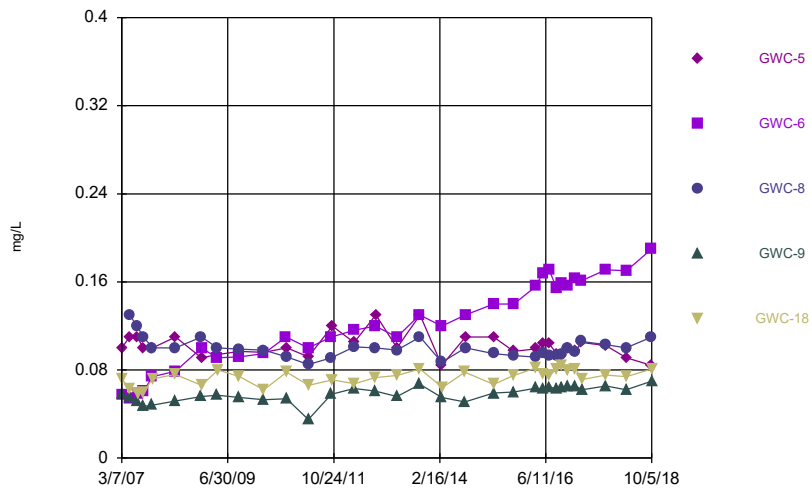
Constituent: Barium Analysis Run 1/21/2019 10:31 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



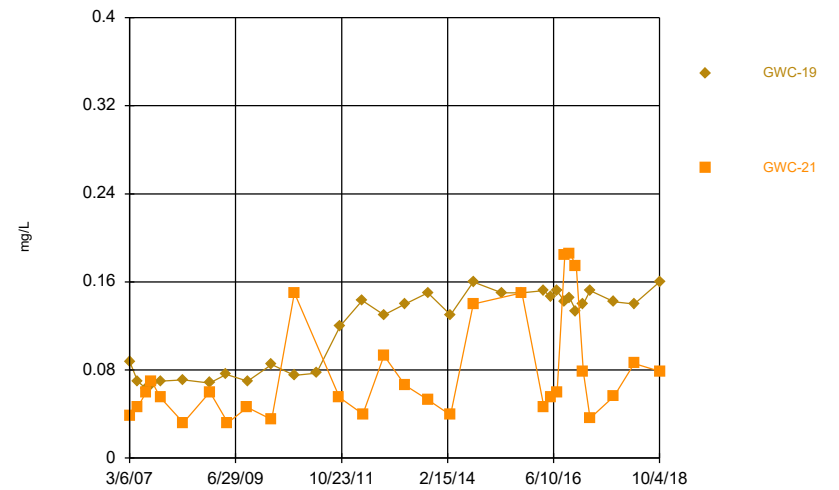
Constituent: Barium Analysis Run 1/21/2019 10:31 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



Constituent: Barium Analysis Run 1/21/2019 10:31 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



Constituent: Barium Analysis Run 1/21/2019 10:31 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

# APPENDIX B

## Laboratory Analytical and Field Sampling Reports

Appendix B1: Laboratory Analytical Data Packages and Data  
Validation Reports

Appendix B2: Field Data Sheets

## APPENDIX B1

# Laboratory Analytical Data Packages and Data Validation Reports

# Laboratory Reports

April 24, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

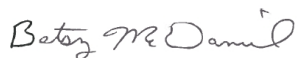
RE: Project: Plant Hammond  
Pace Project No.: 2617140

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond

Pace Project No.: 2617140

---

### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

---

### Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Hammond  
Pace Project No.: 2617140

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2617140001	GWA-3	Water	04/05/19 15:25	04/08/19 15:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Hammond

Pace Project No.: 2617140

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2617140001	GWA-3	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617140

Sample: GWA-3		Lab ID: 2617140001		Collected: 04/05/19 15:25		Received: 04/08/19 15:30		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3010A							
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 00:10	7440-36-0	
Arsenic	<b>0.00035J</b>	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 00:10	7440-38-2	
Barium	<b>0.13</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 00:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 00:10	7440-41-7	
Boron	<b>0.12</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 00:10	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 00:10	7440-43-9	
Calcium	<b>76.5</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/11/19 23:17	7440-70-2	
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 00:10	7440-47-3	
Cobalt	<b>0.00031J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:10	7440-48-4	
Copper	ND	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 00:10	7440-50-8	
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 00:10	7439-92-1	
Nickel	<b>0.00075J</b>	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 00:10	7440-02-0	
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 00:10	7782-49-2	
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:10	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 00:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 00:10	7440-62-2	
Zinc	<b>0.0013J</b>	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 00:10	7440-66-6	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>456</b>	mg/L	25.0	10.0	1		04/11/19 20:53		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Chloride	<b>4.2</b>	mg/L	0.25	0.024	1		04/10/19 05:19	16887-00-6	
Fluoride	<b>0.31</b>	mg/L	0.30	0.029	1		04/10/19 05:19	16984-48-8	
Sulfate	<b>131</b>	mg/L	10.0	0.17	10		04/10/19 10:43	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617140

QC Batch: 468622 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3010A Analysis Description: 6020 MET  
Associated Lab Samples: 2617140001

METHOD BLANK: 2545263 Matrix: Water  
Associated Lab Samples: 2617140001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00011	04/11/19 20:42	
Arsenic	mg/L	ND	0.0050	0.000060	04/11/19 20:42	
Barium	mg/L	ND	0.010	0.000060	04/11/19 20:42	
Beryllium	mg/L	ND	0.0030	0.000050	04/11/19 20:42	
Boron	mg/L	ND	0.10	0.0026	04/11/19 20:42	
Cadmium	mg/L	ND	0.0010	0.000070	04/11/19 20:42	
Calcium	mg/L	ND	0.50	0.021	04/11/19 20:42	
Chromium	mg/L	ND	0.010	0.00042	04/11/19 20:42	
Cobalt	mg/L	ND	0.010	0.000050	04/11/19 20:42	
Copper	mg/L	ND	0.025	0.00023	04/11/19 20:42	
Lead	mg/L	ND	0.0050	0.000050	04/11/19 20:42	
Nickel	mg/L	ND	0.010	0.00011	04/11/19 20:42	
Selenium	mg/L	ND	0.010	0.000080	04/11/19 20:42	
Silver	mg/L	ND	0.010	0.000050	04/11/19 20:42	
Thallium	mg/L	ND	0.0010	0.000060	04/11/19 20:42	
Vanadium	mg/L	ND	0.010	0.00012	04/11/19 20:42	
Zinc	mg/L	ND	0.010	0.0011	04/11/19 20:42	

LABORATORY CONTROL SAMPLE: 2545264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.01	0.0099	99	80-120	
Barium	mg/L	0.05	0.049	99	80-120	
Beryllium	mg/L	0.01	0.010	104	80-120	
Boron	mg/L	0.05	0.052J	104	80-120	
Cadmium	mg/L	0.01	0.010	102	80-120	
Calcium	mg/L	0.62	0.64	102	80-120	
Chromium	mg/L	0.05	0.051	102	80-120	
Cobalt	mg/L	0.01	0.010	102	80-120	
Copper	mg/L	0.05	0.051	103	80-120	
Lead	mg/L	0.05	0.050	100	80-120	
Nickel	mg/L	0.05	0.051	102	80-120	
Selenium	mg/L	0.05	0.051	101	80-120	
Silver	mg/L	0.025	0.025	102	80-120	
Thallium	mg/L	0.01	0.010	100	80-120	
Vanadium	mg/L	0.05	0.051	101	80-120	
Zinc	mg/L	0.05	0.051	102	80-120	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Plant Hammond

Pace Project No.: 2617140

Parameter	Units	2545265		2545266		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Antimony	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20		
Arsenic	mg/L	ND	0.01	0.01	0.0091J	0.0089J	91	89	75-125	2	20		
Barium	mg/L	42.3 ug/L	0.05	0.05	0.085	0.085	85	85	75-125	0	20		
Beryllium	mg/L	ND	0.01	0.01	0.0086	0.0089	86	89	75-125	4	20		
Boron	mg/L	1010J ug/L	0.05	0.05	1.0J	1.0J	67	48	75-125	1	20	M6	
Cadmium	mg/L	0.65J ug/L	0.01	0.01	0.011	0.011	99	99	75-125	0	20		
Calcium	mg/L	70000 ug/L	0.62	0.62	71.3	74.8	207	759	75-125	5	20	M6	
Chromium	mg/L	ND	0.05	0.05	0.048	0.048	96	95	75-125	1	20		
Cobalt	mg/L	4.9J ug/L	0.01	0.01	0.015	0.015	97	96	75-125	1	20		
Copper	mg/L	ND	0.05	0.05	0.049	0.048	98	97	75-125	1	20		
Lead	mg/L	ND	0.05	0.05	0.048	0.048	96	96	75-125	0	20		
Nickel	mg/L	3.5J ug/L	0.05	0.05	0.051	0.051	96	96	75-125	0	20		
Selenium	mg/L	ND	0.05	0.05	0.044	0.044	89	88	75-125	1	20		
Silver	mg/L	ND	0.025	0.025	0.023	0.023	92	91	75-125	1	20		
Thallium	mg/L	ND	0.01	0.01	0.0096	0.0096	96	96	75-125	0	20		
Vanadium	mg/L	ND	0.05	0.05	0.050	0.050	100	100	75-125	0	20		
Zinc	mg/L	4.2J ug/L	0.05	0.05	0.047	0.047	86	86	75-125	0	20		

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617140

QC Batch: 26252

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2617140001

LABORATORY CONTROL SAMPLE: 118510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	84-108	

SAMPLE DUPLICATE: 118512

Parameter	Units	2617150003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2310	2380	3	10	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617140

QC Batch: 26064 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 2617140001

METHOD BLANK: 117680 Matrix: Water  
Associated Lab Samples: 2617140001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	04/10/19 01:27	
Fluoride	mg/L	ND	0.30	0.029	04/10/19 01:27	
Sulfate	mg/L	ND	1.0	0.017	04/10/19 01:27	

LABORATORY CONTROL SAMPLE: 117681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.1	101	90-110	
Fluoride	mg/L	10	10.2	102	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117682 117683

Parameter	Units	2617086001		2617086002		117683		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Chloride	mg/L	4.2	10	10	14.3	14.3	101	90-110	0	15	
Fluoride	mg/L	0.047J	10	10	10.4	10.4	103	90-110	0	15	
Sulfate	mg/L	10.8	10	10	19.6	19.6	89	90-110	0	15	M1

MATRIX SPIKE SAMPLE: 117684

Parameter	Units	2617086002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.6	10	10.7	91	90-110	
Fluoride	mg/L	ND	10	9.2	92	90-110	
Sulfate	mg/L	5.2	10	13.7	85	90-110	M1

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## QUALIFIERS

Project: Plant Hammond

Pace Project No.: 2617140

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond

Pace Project No.: 2617140

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2617140001	GWA-3	EPA 3010A	468622	EPA 6020B	468673
2617140001	GWA-3	SM 2540C	26252		
2617140001	GWA-3	EPA 300.0	26064		

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

**Section A**  
**Required Client Information:**  
 Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Manor Road  
 Atlanta, GA 30339  
 Email: abraham@southernco.com  
 Phone: (404)505-7239  
 Requested Due Date: \_\_\_\_\_

**Section B**  
**Required Project Information:**  
 Report To: Jolu Abraham  
 Copy To: Lauren Petty, Geosyntec  
 Purchase Order #: 9CS10348808  
 Project Name: Plant Hammond  
 Project #: \_\_\_\_\_

**Section C**  
**Invoice Information:**  
 Attention: scsinvoices@southernco.com  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote: \_\_\_\_\_  
 Pace Project Manager: betsy.medaniel@paceclabs.com  
 Pace Profile #: 327 (AP) or 328 (Huf)

ITEM #	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soils SL Oil OL Wipe WP Air AR Other OT Tissue TS	MATRIX CODE	COLLECTED		SAMPLE TYPE (G-RAB C-COMP)	SAMPLER NAME AND SIGNATURE		RECEIVED BY (AFFILIATION)	DATE	TIME	ANALYSIS TEST	PRESERVATIVES	# OF CONTAINERS	SAMPLE TEMP AT COLLECTION	TEMP IN C	Received on	Ice (Y/N)	Sealed (Y/N)	Custody (Y/N)	Cooler (Y/N)	Samples In/tel (Y/N)			
			START DATE	START TIME		END DATE	END TIME															PRINT Name of SAMPLER	SIGNATURE of SAMPLER	
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

WO# : 2617140

2617140

ADDITIONAL COMMENTS	RECEIVED BY (AFFILIATION)	DATE	TIME	RECEIVED BY (AFFILIATION)	DATE	TIME	TEMP IN C	Received on	Ice (Y/N)	Sealed (Y/N)	Custody (Y/N)	Cooler (Y/N)	Samples In/tel (Y/N)

DATE Signed: 04/25/19

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_





Sample Condition Upon Receipt

Client Name: GTA Power

Project # \_\_\_\_\_

WO#: **2617140**

PM: **BM** Due Date: **04/15/19**  
CLIENT: **GAPower-CCR**

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other  
Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used 83 Type of Ice:  Wet  Blue  None

Cooler Temperature 1.1 Biological Tissue is Frozen: Yes No

Samples on ice, cooling process has begun  
Date and Initials of person examining contents: 4/8/19 MB

Temp should be above freezing to 6°C Comments: \_\_\_\_\_

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

May 01, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

RE: Project: Plant Hammond  
Pace Project No.: 2617209


Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the one issued on 4/16/2019. The report has been revised to correct metals units per consultant request. No other changes have been made to this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond

Pace Project No.: 2617209

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### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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### Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Hammond

Pace Project No.: 2617209

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2617209001	GWA-1	Water	04/08/19 10:56	04/09/19 13:30
2617209002	GWC-8	Water	04/08/19 13:15	04/09/19 13:30
2617209003	GWC-7	Water	04/08/19 17:51	04/09/19 13:30
2617209004	FD-02	Water	04/08/19 00:00	04/09/19 13:30
2617209005	GWA-2	Water	04/08/19 11:20	04/09/19 13:30
2617209006	GWC-9	Water	04/08/19 13:20	04/09/19 13:30
2617209007	GWC-6	Water	04/08/19 16:25	04/09/19 13:30
2617209008	GWA-4	Water	04/08/19 13:05	04/09/19 13:30
2617209009	GWA-11	Water	04/08/19 16:21	04/09/19 13:30
2617209010	GWC-23	Water	04/08/19 15:50	04/09/19 13:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Hammond

Pace Project No.: 2617209

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2617209001	GWA-1	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
2617209002	GWC-8	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
2617209003	GWC-7	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
2617209004	FD-02	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
2617209005	GWA-2	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
2617209006	GWC-9	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
2617209007	GWC-6	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
2617209008	GWA-4	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
2617209009	GWA-11	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
2617209010	GWC-23	EPA 6020B	JMW1	17	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA

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## ANALYTICAL RESULTS

Project: Plant Hammond  
Pace Project No.: 2617209

Sample: GWA-1		Lab ID: 2617209001		Collected: 04/08/19 10:56		Received: 04/09/19 13:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 00:17	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 00:17	7440-38-2		
Barium	<b>0.031</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 00:17	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 00:17	7440-41-7		
Boron	<b>0.019J</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 00:17	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 00:17	7440-43-9		
Calcium	<b>15.7</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/11/19 23:24	7440-70-2		
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 00:17	7440-47-3		
Cobalt	<b>0.00026J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:17	7440-48-4		
Copper	ND	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 00:17	7440-50-8		
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 00:17	7439-92-1		
Nickel	<b>0.00034J</b>	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 00:17	7440-02-0		
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 00:17	7782-49-2		
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:17	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 00:17	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 00:17	7440-62-2		
Zinc	ND	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 00:17	7440-66-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C								
Total Dissolved Solids	<b>91.0</b>	mg/L	25.0	10.0	1		04/11/19 20:54			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0								
Chloride	<b>1.1</b>	mg/L	0.25	0.024	1		04/11/19 03:40	16887-00-6		
Fluoride	<b>0.057J</b>	mg/L	0.30	0.029	1		04/11/19 03:40	16984-48-8		
Sulfate	<b>4.6</b>	mg/L	1.0	0.017	1		04/11/19 03:40	14808-79-8		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617209

Sample: <b>GWC-8</b>		Lab ID: <b>2617209002</b>		Collected: 04/08/19 13:15		Received: 04/09/19 13:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 00:21	7440-36-0		
Arsenic	<b>0.0015J</b>	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 00:21	7440-38-2		
Barium	<b>0.13</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 00:21	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 00:21	7440-41-7		
Boron	<b>0.055J</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 00:21	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 00:21	7440-43-9		
Calcium	<b>81.5</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/11/19 23:28	7440-70-2		
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 00:21	7440-47-3		
Cobalt	<b>0.0017J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:21	7440-48-4		
Copper	ND	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 00:21	7440-50-8		
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 00:21	7439-92-1		
Nickel	<b>0.00064J</b>	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 00:21	7440-02-0		
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 00:21	7782-49-2		
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:21	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 00:21	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 00:21	7440-62-2		
Zinc	<b>0.0012J</b>	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 00:21	7440-66-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C								
Total Dissolved Solids	<b>438</b>	mg/L	25.0	10.0	1		04/11/19 20:54			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0								
Chloride	<b>3.2</b>	mg/L	0.25	0.024	1		04/11/19 04:22	16887-00-6		
Fluoride	<b>0.10J</b>	mg/L	0.30	0.029	1		04/11/19 04:22	16984-48-8		
Sulfate	<b>39.9</b>	mg/L	1.0	0.017	1		04/11/19 04:22	14808-79-8		

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## ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617209

Sample: GWC-7		Lab ID: 2617209003		Collected: 04/08/19 17:51		Received: 04/09/19 13:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 00:24	7440-36-0		
Arsenic	<b>0.0057</b>	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 00:24	7440-38-2		
Barium	<b>0.24</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 00:24	7440-39-3		
Beryllium	<b>0.000058J</b>	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 00:24	7440-41-7		
Boron	<b>0.049J</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 00:24	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 00:24	7440-43-9		
Calcium	<b>56.1</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/11/19 23:31	7440-70-2		
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 00:24	7440-47-3		
Cobalt	<b>0.0086J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:24	7440-48-4		
Copper	<b>0.00025J</b>	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 00:24	7440-50-8		
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 00:24	7439-92-1		
Nickel	<b>0.030</b>	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 00:24	7440-02-0		
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 00:24	7782-49-2		
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:24	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 00:24	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 00:24	7440-62-2		
Zinc	<b>0.051</b>	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 00:24	7440-66-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C								
Total Dissolved Solids	<b>295</b>	mg/L	25.0	10.0	1		04/11/19 20:55			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0								
Chloride	<b>1.9</b>	mg/L	0.25	0.024	1		04/11/19 04:42	16887-00-6		
Fluoride	<b>0.17J</b>	mg/L	0.30	0.029	1		04/11/19 04:42	16984-48-8		
Sulfate	<b>97.1</b>	mg/L	10.0	0.17	10		04/15/19 23:36	14808-79-8		

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### ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617209

**Sample: FD-02**      **Lab ID: 2617209004**      Collected: 04/08/19 00:00      Received: 04/09/19 13:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B    Preparation Method: EPA 3010A							
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 00:28	7440-36-0	
Arsenic	<b>0.0015J</b>	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 00:28	7440-38-2	
Barium	<b>0.13</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 00:28	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 00:28	7440-41-7	
Boron	<b>0.056J</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 00:28	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 00:28	7440-43-9	
Calcium	<b>84.5</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/11/19 23:35	7440-70-2	
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 00:28	7440-47-3	
Cobalt	<b>0.0017J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:28	7440-48-4	
Copper	ND	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 00:28	7440-50-8	
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 00:28	7439-92-1	
Nickel	<b>0.00068J</b>	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 00:28	7440-02-0	
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 00:28	7782-49-2	
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:28	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 00:28	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 00:28	7440-62-2	
Zinc	<b>0.0013J</b>	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 00:28	7440-66-6	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>407</b>	mg/L	25.0	10.0	1		04/15/19 21:21		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Chloride	<b>3.1</b>	mg/L	0.25	0.024	1		04/11/19 05:03	16887-00-6	
Fluoride	<b>0.11J</b>	mg/L	0.30	0.029	1		04/11/19 05:03	16984-48-8	
Sulfate	<b>39.2</b>	mg/L	1.0	0.017	1		04/11/19 05:03	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617209

**Sample: GWA-2**      **Lab ID: 2617209005**      Collected: 04/08/19 11:20      Received: 04/09/19 13:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020B      Preparation Method: EPA 3010A									
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 00:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 00:39	7440-38-2	
Barium	<b>0.15</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 00:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 00:39	7440-41-7	
Boron	<b>0.071J</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 00:39	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 00:39	7440-43-9	
Calcium	<b>44.1</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/11/19 23:38	7440-70-2	
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 00:39	7440-47-3	
Cobalt	<b>0.000061J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:39	7440-48-4	
Copper	<b>0.00029J</b>	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 00:39	7440-50-8	
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 00:39	7439-92-1	
Nickel	ND	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 00:39	7440-02-0	
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 00:39	7782-49-2	
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 00:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 00:39	7440-62-2	
Zinc	<b>0.0014J</b>	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 00:39	7440-66-6	
<b>2540C Total Dissolved Solids</b> Analytical Method: SM 2540C									
Total Dissolved Solids	<b>209</b>	mg/L	25.0	10.0	1		04/15/19 21:21		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Chloride	<b>2.6</b>	mg/L	0.25	0.024	1		04/11/19 05:24	16887-00-6	
Fluoride	<b>0.072J</b>	mg/L	0.30	0.029	1		04/11/19 05:24	16984-48-8	
Sulfate	<b>18.1</b>	mg/L	1.0	0.017	1		04/11/19 05:24	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617209

**Sample: GWC-9**      **Lab ID: 2617209006**      Collected: 04/08/19 13:20      Received: 04/09/19 13:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B    Preparation Method: EPA 3010A							
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/11/19 23:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/11/19 23:56	7440-38-2	
Barium	<b>0.058</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/11/19 23:56	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/11/19 23:56	7440-41-7	
Boron	<b>0.015J</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/11/19 23:56	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/11/19 23:56	7440-43-9	
Calcium	<b>36.3</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/11/19 23:42	7440-70-2	
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/11/19 23:56	7440-47-3	
Cobalt	<b>0.00041J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/11/19 23:56	7440-48-4	
Copper	ND	mg/L	0.025	0.00023	1	04/10/19 19:59	04/11/19 23:56	7440-50-8	
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/11/19 23:56	7439-92-1	
Nickel	<b>0.0021J</b>	mg/L	0.010	0.00011	1	04/10/19 19:59	04/11/19 23:56	7440-02-0	
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/11/19 23:56	7782-49-2	
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/11/19 23:56	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/11/19 23:56	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/11/19 23:56	7440-62-2	
Zinc	<b>0.0016J</b>	mg/L	0.010	0.0011	1	04/10/19 19:59	04/11/19 23:56	7440-66-6	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>264</b>	mg/L	25.0	10.0	1		04/15/19 21:21		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Chloride	<b>1.0</b>	mg/L	0.25	0.024	1		04/11/19 05:45	16887-00-6	
Fluoride	<b>0.058J</b>	mg/L	0.30	0.029	1		04/11/19 05:45	16984-48-8	
Sulfate	<b>73.5</b>	mg/L	10.0	0.17	10		04/15/19 23:59	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617209

**Sample: GWC-6**      **Lab ID: 2617209007**      Collected: 04/08/19 16:25      Received: 04/09/19 13:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020B      Preparation Method: EPA 3010A									
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 00:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 00:00	7440-38-2	
Barium	<b>0.15</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 00:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 00:00	7440-41-7	
Boron	<b>0.036J</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 00:00	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 00:00	7440-43-9	
Calcium	<b>67.0</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/11/19 23:45	7440-70-2	
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 00:00	7440-47-3	
Cobalt	<b>0.00022J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:00	7440-48-4	
Copper	ND	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 00:00	7440-50-8	
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 00:00	7439-92-1	
Nickel	<b>0.00032J</b>	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 00:00	7440-02-0	
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 00:00	7782-49-2	
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 00:00	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 00:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 00:00	7440-62-2	
Zinc	<b>0.0013J</b>	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 00:00	7440-66-6	
<b>2540C Total Dissolved Solids</b> Analytical Method: SM 2540C									
Total Dissolved Solids	<b>353</b>	mg/L	25.0	10.0	1		04/15/19 21:22		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Chloride	<b>2.1</b>	mg/L	0.25	0.024	1		04/11/19 06:05	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		04/11/19 06:05	16984-48-8	
Sulfate	<b>131</b>	mg/L	10.0	0.17	10		04/16/19 00:22	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Hammond  
Pace Project No.: 2617209

Sample: GWA-4		Lab ID: 2617209008		Collected: 04/08/19 13:05		Received: 04/09/19 13:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 01:11	7440-36-0		
Arsenic	<b>0.00023J</b>	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 01:11	7440-38-2		
Barium	<b>0.047</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 01:11	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 01:11	7440-41-7		
Boron	<b>0.057J</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 01:11	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 01:11	7440-43-9		
Calcium	<b>86.6</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/12/19 00:42	7440-70-2		
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 01:11	7440-47-3		
Cobalt	<b>0.00044J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 01:11	7440-48-4		
Copper	ND	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 01:11	7440-50-8		
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 01:11	7439-92-1		
Nickel	<b>0.00089J</b>	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 01:11	7440-02-0		
Selenium	<b>0.00014J</b>	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 01:11	7782-49-2		
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 01:11	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 01:11	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 01:11	7440-62-2		
Zinc	<b>0.0023J</b>	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 01:11	7440-66-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C								
Total Dissolved Solids	<b>522</b>	mg/L	25.0	10.0	1		04/15/19 21:22			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0								
Chloride	<b>3.6</b>	mg/L	0.25	0.024	1		04/11/19 06:26	16887-00-6		
Fluoride	<b>0.12J</b>	mg/L	0.30	0.029	1		04/11/19 06:26	16984-48-8		
Sulfate	<b>248</b>	mg/L	20.0	0.34	20		04/16/19 00:45	14808-79-8		

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### ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617209

**Sample: GWA-11**      **Lab ID: 2617209009**      Collected: 04/08/19 16:21      Received: 04/09/19 13:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B    Preparation Method: EPA 3010A							
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 01:26	7440-36-0	
Arsenic	<b>0.00012J</b>	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 01:26	7440-38-2	
Barium	<b>0.031</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 01:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 01:26	7440-41-7	
Boron	<b>0.034J</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 01:26	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 01:26	7440-43-9	
Calcium	<b>22.4</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/12/19 00:46	7440-70-2	
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 01:26	7440-47-3	
Cobalt	<b>0.00076J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 01:26	7440-48-4	
Copper	<b>0.0013J</b>	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 01:26	7440-50-8	
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 01:26	7439-92-1	BC
Nickel	<b>0.0023J</b>	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 01:26	7440-02-0	
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 01:26	7782-49-2	
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 01:26	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 01:26	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 01:26	7440-62-2	
Zinc	<b>0.0024J</b>	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 01:26	7440-66-6	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>142</b>	mg/L	25.0	10.0	1		04/15/19 21:22		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Chloride	<b>1.3</b>	mg/L	0.25	0.024	1		04/11/19 08:10	16887-00-6	
Fluoride	<b>0.035J</b>	mg/L	0.30	0.029	1		04/11/19 08:10	16984-48-8	
Sulfate	<b>13.2</b>	mg/L	1.0	0.017	1		04/11/19 08:10	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617209

**Sample: GWC-23**      **Lab ID: 2617209010**      Collected: 04/08/19 15:50      Received: 04/09/19 13:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020B      Preparation Method: EPA 3010A									
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 01:29	7440-36-0	
Arsenic	<b>0.00034J</b>	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 01:29	7440-38-2	
Barium	<b>0.059</b>	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 01:29	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 01:29	7440-41-7	
Boron	<b>0.022J</b>	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 01:29	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 01:29	7440-43-9	
Calcium	<b>39.8</b>	mg/L	10.0	0.41	20	04/10/19 19:59	04/12/19 00:49	7440-70-2	
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 01:29	7440-47-3	
Cobalt	<b>0.00046J</b>	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 01:29	7440-48-4	
Copper	<b>0.00050J</b>	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 01:29	7440-50-8	
Lead	<b>0.00018J</b>	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 01:29	7439-92-1	BC
Nickel	<b>0.0011J</b>	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 01:29	7440-02-0	
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 01:29	7782-49-2	
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 01:29	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 01:29	7440-28-0	
Vanadium	<b>0.00017J</b>	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 01:29	7440-62-2	
Zinc	<b>0.0016J</b>	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 01:29	7440-66-6	
<b>2540C Total Dissolved Solids</b> Analytical Method: SM 2540C									
Total Dissolved Solids	<b>191</b>	mg/L	25.0	10.0	1		04/15/19 21:22		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Chloride	<b>1.5</b>	mg/L	0.25	0.024	1		04/11/19 08:31	16887-00-6	
Fluoride	<b>0.057J</b>	mg/L	0.30	0.029	1		04/11/19 08:31	16984-48-8	
Sulfate	<b>6.2</b>	mg/L	1.0	0.017	1		04/11/19 08:31	14808-79-8	

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617209

QC Batch: 468622 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3010A Analysis Description: 6020 MET  
 Associated Lab Samples: 2617209001, 2617209002, 2617209003, 2617209004, 2617209005, 2617209006, 2617209007, 2617209008,  
 2617209009, 2617209010

METHOD BLANK: 2545263 Matrix: Water  
 Associated Lab Samples: 2617209001, 2617209002, 2617209003, 2617209004, 2617209005, 2617209006, 2617209007, 2617209008,  
 2617209009, 2617209010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00011	04/11/19 20:42	
Arsenic	mg/L	ND	0.0050	0.000060	04/11/19 20:42	
Barium	mg/L	ND	0.010	0.000060	04/11/19 20:42	
Beryllium	mg/L	ND	0.0030	0.000050	04/11/19 20:42	
Boron	mg/L	ND	0.10	0.0026	04/11/19 20:42	
Cadmium	mg/L	ND	0.0010	0.000070	04/11/19 20:42	
Calcium	mg/L	ND	0.50	0.021	04/11/19 20:42	
Chromium	mg/L	ND	0.010	0.00042	04/11/19 20:42	
Cobalt	mg/L	ND	0.010	0.000050	04/11/19 20:42	
Copper	mg/L	ND	0.025	0.00023	04/11/19 20:42	
Lead	mg/L	ND	0.0050	0.000050	04/11/19 20:42	
Nickel	mg/L	ND	0.010	0.00011	04/11/19 20:42	
Selenium	mg/L	ND	0.010	0.000080	04/11/19 20:42	
Silver	mg/L	ND	0.010	0.000050	04/11/19 20:42	
Thallium	mg/L	ND	0.0010	0.000060	04/11/19 20:42	
Vanadium	mg/L	ND	0.010	0.00012	04/11/19 20:42	
Zinc	mg/L	ND	0.010	0.0011	04/11/19 20:42	

LABORATORY CONTROL SAMPLE: 2545264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.01	0.0099	99	80-120	
Barium	mg/L	0.05	0.049	99	80-120	
Beryllium	mg/L	0.01	0.010	104	80-120	
Boron	mg/L	0.05	0.052J	104	80-120	
Cadmium	mg/L	0.01	0.010	102	80-120	
Calcium	mg/L	0.62	0.64	102	80-120	
Chromium	mg/L	0.05	0.051	102	80-120	
Cobalt	mg/L	0.01	0.010	102	80-120	
Copper	mg/L	0.05	0.051	103	80-120	
Lead	mg/L	0.05	0.050	100	80-120	
Nickel	mg/L	0.05	0.051	102	80-120	
Selenium	mg/L	0.05	0.051	101	80-120	
Silver	mg/L	0.025	0.025	102	80-120	
Thallium	mg/L	0.01	0.010	100	80-120	
Vanadium	mg/L	0.05	0.051	101	80-120	
Zinc	mg/L	0.05	0.051	102	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617209

Parameter	Units	2545265		2545266		MS % Rec	MSD % Rec	% Rec	Limits	RPD	Max RPD	Qual
		2617144001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	mg/L		0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Arsenic	mg/L		0.01	0.01	0.0091J	0.0089J	91	89	75-125	2	20	
Barium	mg/L		0.05	0.05	0.085	0.085	85	85	75-125	0	20	
Beryllium	mg/L		0.01	0.01	0.0086	0.0089	86	89	75-125	4	20	
Boron	mg/L	1010J ug/L	0.05	0.05	1.0J	1.0J	67	48	75-125	1	20	M6
Cadmium	mg/L		0.01	0.01	0.011	0.011	99	99	75-125	0	20	
Calcium	mg/L	70000 ug/L	0.62	0.62	71.3	74.8	207	759	75-125	5	20	M6
Chromium	mg/L		0.05	0.05	0.048	0.048	96	95	75-125	1	20	
Cobalt	mg/L		0.01	0.01	0.015	0.015	97	96	75-125	1	20	
Copper	mg/L		0.05	0.05	0.049	0.048	98	97	75-125	1	20	
Lead	mg/L		0.05	0.05	0.048	0.048	96	96	75-125	0	20	
Nickel	mg/L		0.05	0.05	0.051	0.051	96	96	75-125	0	20	
Selenium	mg/L		0.05	0.05	0.044	0.044	89	88	75-125	1	20	
Silver	mg/L		0.025	0.025	0.023	0.023	92	91	75-125	1	20	
Thallium	mg/L		0.01	0.01	0.0096	0.0096	96	96	75-125	0	20	
Vanadium	mg/L		0.05	0.05	0.050	0.050	100	100	75-125	0	20	
Zinc	mg/L		0.05	0.05	0.047	0.047	86	86	75-125	0	20	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Plant Hammond  
Pace Project No.: 2617209

QC Batch: 26252 Analysis Method: SM 2540C  
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 2617209001, 2617209002, 2617209003

LABORATORY CONTROL SAMPLE: 118510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	84-108	

SAMPLE DUPLICATE: 118512

Parameter	Units	2617150003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2310	2380	3	10	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617209

---

QC Batch: 26275 Analysis Method: SM 2540C  
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 2617209004, 2617209005, 2617209006, 2617209007, 2617209008, 2617209009, 2617209010

---

LABORATORY CONTROL SAMPLE: 118616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	381	95	84-108	

---

SAMPLE DUPLICATE: 118618

Parameter	Units	2617267003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	252	6	10	

---

SAMPLE DUPLICATE: 118698

Parameter	Units	2617209006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	264	245	7	10	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617209

QC Batch: 26135 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 2617209001, 2617209002, 2617209003, 2617209004, 2617209005, 2617209006, 2617209007, 2617209008, 2617209009, 2617209010

METHOD BLANK: 117979 Matrix: Water  
Associated Lab Samples: 2617209001, 2617209002, 2617209003, 2617209004, 2617209005, 2617209006, 2617209007, 2617209008, 2617209009, 2617209010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.064J	0.25	0.024	04/10/19 21:47	
Fluoride	mg/L	ND	0.30	0.029	04/10/19 21:47	
Sulfate	mg/L	ND	1.0	0.017	04/10/19 21:47	

LABORATORY CONTROL SAMPLE: 117980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117981 117982

Parameter	Units	2617207001		117982		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	0.25J	10	10	9.9	10	96	97	90-110	1	15
Fluoride	mg/L	ND	10	10	9.5	9.6	95	96	90-110	1	15
Sulfate	mg/L	0.13J	10	10	9.5	9.6	94	94	90-110	1	15

MATRIX SPIKE SAMPLE: 117983

Parameter	Units	2617150001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	131	10	10.5	-1210	90-110	
Fluoride	mg/L	0.13J	10	9.4	93	90-110	
Sulfate	mg/L	392	10	13.7	-3780	90-110	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Hammond

Pace Project No.: 2617209

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

### ANALYTE QUALIFIERS

BC The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond

Pace Project No.: 2617209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2617209001	GWA-1	EPA 3010A	468622	EPA 6020B	468673
2617209002	GWC-8	EPA 3010A	468622	EPA 6020B	468673
2617209003	GWC-7	EPA 3010A	468622	EPA 6020B	468673
2617209004	FD-02	EPA 3010A	468622	EPA 6020B	468673
2617209005	GWA-2	EPA 3010A	468622	EPA 6020B	468673
2617209006	GWC-9	EPA 3010A	468622	EPA 6020B	468673
2617209007	GWC-6	EPA 3010A	468622	EPA 6020B	468673
2617209008	GWA-4	EPA 3010A	468622	EPA 6020B	468673
2617209009	GWA-11	EPA 3010A	468622	EPA 6020B	468673
2617209010	GWC-23	EPA 3010A	468622	EPA 6020B	468673
2617209001	GWA-1	SM 2540C	26252		
2617209002	GWC-8	SM 2540C	26252		
2617209003	GWC-7	SM 2540C	26252		
2617209004	FD-02	SM 2540C	26275		
2617209005	GWA-2	SM 2540C	26275		
2617209006	GWC-9	SM 2540C	26275		
2617209007	GWC-6	SM 2540C	26275		
2617209008	GWA-4	SM 2540C	26275		
2617209009	GWA-11	SM 2540C	26275		
2617209010	GWC-23	SM 2540C	26275		
2617209001	GWA-1	EPA 300.0	26135		
2617209002	GWC-8	EPA 300.0	26135		
2617209003	GWC-7	EPA 300.0	26135		
2617209004	FD-02	EPA 300.0	26135		
2617209005	GWA-2	EPA 300.0	26135		
2617209006	GWC-9	EPA 300.0	26135		
2617209007	GWC-6	EPA 300.0	26135		
2617209008	GWA-4	EPA 300.0	26135		
2617209009	GWA-11	EPA 300.0	26135		
2617209010	GWC-23	EPA 300.0	26135		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 4

**Section A**  
**Required Client Information:**  
 Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Maner Road  
 Atlanta, GA 30339  
 Email: jabraham@southernco.com  
 Phone: (404) 506-7239  
 Requested Due Date: Standard 30

**Section B**  
**Required Project Information:**  
 Report To: Joji Abraham  
 Copy To: Lauren Petty, Geosynthetic  
 Atlanta, GA 30339  
 Purchase Order #: SCS 10548606  
 Project Name: Plant Hammond  
 Project #:

**Section C**  
**Invoice Information:**  
 Attention: scsinvoic@southernco.com  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: betsy.mcdaniel@paceelabs.com  
 Pace Profile #: 327 (AP) or 328 (Huff)

ITEM #	MATRIX	CODE	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TYPE (G-GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Metals (App. III & App. IV)	Metals (App. III, IV, D&O)	Metals (App. III & D&O)	TDS, Cl, F, SO4	Radium 226/228	Residual Chlorine (Y/N)	Requested Analytes/Method (Y/N)	Temp in C	Received on	Job (Y/N)	Custody	Sealed	Cooler	Samples	Intact (Y/N)								
			START	END																																							
1	Drinking Water	DW	4/8/19	1051	4/8/19	1056	15	3	2	WTG	1																																
2	Waste Water	WW	4/8/19	1300	4/8/19	1315	16	3	2	WTG	1																																
3	Process Water	P	4/8/19	1342	4/8/19	1351	17	3	2	WTG	1																																
4	Solid	SL	4/8/19	-	4/8/19	-	17	3	2	WTG	1																																

**ADDITIONAL COMMENTS:**

**RECEIVED BY / VERIFICATION:** Grant Walter / Geosynthetic 04/08/19 1812  
 Melia Johnson / Geosynthetic 4/8/19 2010  
 KBB / Geosynthetic 4/9/19 1127

**DATE SIGNED:** 04/08/19

**SIGNATURE OF SAMPLER:** Grant Walter

**DATE SIGNED:** 04/08/19

**SIGNATURE OF SAMPLER:** Grant Walter

**TEMP IN C:** 1812, 2010, 1127

**RECEIVED ON:** 4/8/19, 4/9/19, 4/10/19

**JOB (Y/N):** Y, Y, Y

**CUSTODY:** Y, Y, Y

**SEALED:** Y, Y, Y

**COOLER:** Y, Y, Y

**SAMPLES:** Y, Y, Y

**INTACT (Y/N):** Y, Y, Y

NO#: 2617209

2617209

(S) 04/08/19



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 4

**Section A**  
 Required Client Information:  
 Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Maner Road  
 Atlanta, GA 30339  
 Email: jbraham@southemco.com  
 Phone: (404) 506-7239  
 Requested Due Date: \_\_\_\_\_

**Section B**  
 Required Project Information:  
 Report To: Joji Abraham  
 Copy To: Lauren Petty, Geosyntec  
 Atlanta, GA 30339  
 Purchase Order #: SCS 0348606  
 Project Name: Plant Hammond  
 Project #: \_\_\_\_\_

**Section C**  
 Invoice Information:  
 Attention: scsimvoices@southemco.com  
 Company Name:  
 Address:  
 Pace Office:  
 Pace Project Manager: betsy.mcdaniel@pacelabs.com  
 Pace Profile #: 327 (AP) or 328 (Huff)

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	ANALYSES TEST										Residual Chlorine (Y/N)							
			START DATE TIME	END DATE TIME			H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	Metals (App. III & App. IV)	Metals (App. III & D&O)	TDS, Cl, F, SO4		Radium 226/228						
1	Drinking Water	DW	4/18/19 10:15	4/18/19 11:20	68	3	Unpreserved																	
2	Waste Water	WW	4/18/19 13:20	4/18/19 13:25	71	3																		
3	Product	P	4/18/19 16:05	4/18/19 16:15	73	2																		
4	Soil	SL																						
5	Oil	OL																						
6	Wipe	WP																						
7	Air	AR																						
8	Other	OT																						
9	Tissue	TS																						

**ADDITIONAL COMMENTS**  
 Dalton Anderson (COP) 4/18/19 14:58  
 Modie Mendenhall/Geosyntec 4/18/19 20:10  
 LeRae Mendenhall/Geosyntec 4/19/19 11:27

**RELINQUISHED BY (AFFILIATION)**  
 Dalton Anderson / Georgia  
 Modie Mendenhall / Geosyntec  
 LeRae Mendenhall / Geosyntec

**DATE**  
 4/18/19  
 4/18/19  
 4/19/19

**TIME**  
 14:58  
 20:10  
 11:27

**RECEIVED BY (AFFILIATION)**  
 Dalton Anderson / Georgia  
 Modie Mendenhall / Geosyntec  
 LeRae Mendenhall / Geosyntec

**DATE**  
 4/18/19  
 4/18/19  
 4/19/19

**TIME**  
 18:12  
 20:10  
 11:27

**TEMP in C**  
 79  
 79  
 77

**Received on**  
 4/18/19

**Sealed**  
 4/18/19

**Custody**  
 4/18/19

**Samples Intact (Y/N)**  
 4/18/19

**DATE Signed:** 4/18/19  
**SIGNATURE of SAMPLER:** Dalton Anderson  
**PRINT Name of SAMPLER:** Dalton Anderson

WO#: 2617209

PM: BH Due Date: 04/16/19  
CLIENT: GAPower-CCR





# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 4

**Section A**  
**Required Client Information:**  
 Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Master Road, Atlanta, GA 30339  
 Email: jabraham@southernco.com  
 Phone: (404) 506-7239  
 Requested Due Date: Standard

**Section B**  
**Required Project Information:**  
 Report To: Jody Abraham  
 Copy To: Lauren Petty, Geosyntec  
 Purchase Order #: SCS10348606  
 Project Name: Plant Hammond  
 Project #: \_\_\_\_\_

**Section C**  
**Invoice Information:**  
 Attention: scsinvoices@southernco.com  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Client: \_\_\_\_\_  
 Pace Project Manager: betsy.medaniel@pacelabs.com  
 Pace Profile #: 327 (AP) or 328 (Huff)

ITEM #	MATRIX	CODE	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	UNPRESERVED	PRESERVATIVES				ANALYSES	METALS (APP. III & APP. IV)	METALS (APP. III & D&O)	METALS (APP. III & D&O)	TDS, CL, F, SO4	RADIUM 226/228	RESIDUAL CHLORINE (Y/N)	
			START	END						H2SO4	HNO3	HCl	NaOH								Na2S2O3
1	GW	DW	4/8/10	12:57	4/8/10	13:05	32	1													
2	GW	WT	4/8/10	16:11	4/8/10	16:21	32	1													

**ADDITIONAL COMMENTS**  
 AR 4-8-2010

**DATE RECEIVED BY APPLICATOR**  
 DATE: 4/8/10  
 TIME: 11:27  
 RECEIVED BY: M. Blawie / Geosyntec

**DATE**  
 DATE: 4/8/10  
 TIME: 18:12  
 RECEIVED BY: Maria Johnson / Geosyntec

**TEMP IN C**  
 4-8-2010  
 4/9/10 13:00:79

**RECEIVED ON**  
 Received on: 4-8-2010

**CUSTOMER**  
 Customer: Georgia Power

**SEALING CONDITIONS**  
 Sealed Cooler (Y/N):  
 Custody (Y/N):  
 Intact Samples (Y/N):

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Aaron Reeder  
 SIGNATURE of SAMPLER: *Aaron Reeder*  
 DATE Signed: 4-8-2010



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 4 of 4

**Section A**  
**Required Client Information:**  
 Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Manor Road  
 Atlanta, GA 30339  
 Email: j.abraham@southemco.com  
 Phone: (404) 506-7239  
 Requested Due Date:                     

**Section B**  
**Required Project Information:**  
 Report To: Joju Abraham  
 Copy To: Lauren Petty, Geosyntec  
 Purchase Order #: SCS10348606  
 Project Name: Plant Hammond  
 Project #:                     

**Section C**  
**Invoice Information:**  
 Attention: scsinvoic@southemco.com  
 Company Name:                       
 Address:                       
 Pace Quote:                       
 Pace Project Manager: baisy.mcdaniel@pacelabs.com  
 Pace Profile #: 327 (AP) or 328 (Huff)

ITEM #	MATRIX	MATRIX CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	ANALYSES (Y/N)	Requested Analytes Filtered (Y/N)	TEMP in C	Received on	Custody (Y/N)	Sealed Cooler (Y/N)	Samples Intact (Y/N)
			START DATE	END DATE												
1	Drinking Water	DW	4/19/19	4/19/19	G	WT	32	H2SO4 Unpreserved	Y							
2	Waste Water	WW						NaOH								
3	Waste Water	WW						HCl								
4	Product	P						HNO3								
5	Oil	OL						H2SO4								
6	Wine	WP						Unpreserved								
7	Air	AR														
8	Other	OT														
9	Tissue	TS														
10																
11																
12																

**ADDITIONAL COMMENTS:**  
 Noelia Abraham Geosyntec 4/18/19  
 Lauren Petty Geosyntec 4/19/19  
 Noelia Abraham 4/19/19  
 1330-797

**PREPARED BY / AFFIRMATION:**  
 Noelia Abraham Geosyntec 4/18/19  
 Lauren Petty Geosyntec 4/19/19

**DATE:** 4/18/19 11:27  
 4/19/19 11:27

**TIME:** 2:10  
 11:27

**DATE:** 4/18/19  
 4/19/19

**TIME:** 11:27  
 11:27

**TEMP in C:** 32  
 32

**Received on:** 4/18/19  
 4/19/19

**Custody (Y/N):** Y  
 Y

**Sealed Cooler (Y/N):** Y  
 Y

**Samples Intact (Y/N):** Y  
 Y

**Signature:** Noelia Abraham

**DATE Signed:** 4/18/19



Sample Condition Upon Receipt

Client Name: GIA Power

Project # \_\_\_\_\_

WO#: **2617209**

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other  
Tracking #: \_\_\_\_\_

PM: **BM**

Due Date: **04/16/19**

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes

CLIENT: **GAPower-CCR**

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used 83

Type of Ice:  Wet  Blue  None

Samples on ice, cooling process has begun

Cooler Temperature 0.7

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 4/9/19 NR

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.		
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.		
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.		
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.		
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.		
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.		
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.		
-Includes date/time/ID/Analysis Matrix:	<u>W</u>			
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.		
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Field Data Required? Y / N

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

April 25, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

RE: Project: Plant Hammond  
Pace Project No.: 2617267

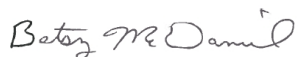
Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report replaces the report issued on 4/18/2019. It has been revised to remove Mercury data per consultant request. No other changes have been made to this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond

Pace Project No.: 2617267

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### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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## SAMPLE SUMMARY

Project: Plant Hammond

Pace Project No.: 2617267

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2617267001	GWC-5	Water	04/09/19 09:36	04/10/19 14:05
2617267002	GWC-10	Water	04/09/19 11:26	04/10/19 14:05
2617267003	GWC-20	Water	04/09/19 14:16	04/10/19 14:05
2617267004	GWC-18	Water	04/09/19 10:40	04/10/19 14:05
2617267005	GWC-19	Water	04/09/19 12:35	04/10/19 14:05
2617267006	GWC-21	Water	04/09/19 10:37	04/10/19 14:05
2617267007	GWC-22	Water	04/09/19 13:01	04/10/19 14:05

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### SAMPLE ANALYTE COUNT

Project: Plant Hammond

Pace Project No.: 2617267

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2617267001	GWC-5	EPA 6020B	CSW	17
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2617267002	GWC-10	EPA 6020B	CSW	17
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2617267003	GWC-20	EPA 6020B	CSW	17
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2617267004	GWC-18	EPA 6020B	CSW	17
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2617267005	GWC-19	EPA 6020B	CSW	17
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2617267006	GWC-21	EPA 6020B	CSW	17
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2617267007	GWC-22	EPA 6020B	CSW	17
		SM 2540C	RLC	1
		EPA 300.0	RLC	3

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### ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617267

**Sample: GWC-5**      **Lab ID: 2617267001**      Collected: 04/09/19 09:36      Received: 04/10/19 14:05      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020B MET ICPMS</b> Analytical Method: EPA 6020B      Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00078	1	04/11/19 13:50	04/12/19 14:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	04/11/19 13:50	04/12/19 14:21	7440-38-2	
Barium	<b>0.067</b>	mg/L	0.010	0.00078	1	04/11/19 13:50	04/12/19 14:21	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/11/19 13:50	04/12/19 14:21	7440-41-7	
Boron	<b>0.048</b>	mg/L	0.040	0.0039	1	04/11/19 13:50	04/12/19 14:21	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/11/19 13:50	04/12/19 14:21	7440-43-9	
Calcium	<b>73.9</b>	mg/L	25.0	0.69	50	04/11/19 13:50	04/12/19 14:27	7440-70-2	M6
Chromium	ND	mg/L	0.010	0.0016	1	04/11/19 13:50	04/12/19 14:21	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/11/19 13:50	04/12/19 14:21	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	04/11/19 13:50	04/12/19 14:21	7440-50-8	
Lead	<b>0.00039J</b>	mg/L	0.0050	0.00027	1	04/11/19 13:50	04/12/19 14:21	7439-92-1	
Nickel	<b>0.00098J</b>	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 14:21	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	04/11/19 13:50	04/12/19 14:21	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 14:21	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	04/11/19 13:50	04/12/19 14:21	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	04/11/19 13:50	04/12/19 14:21	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	04/11/19 13:50	04/12/19 14:21	7440-66-6	
<b>2540C Total Dissolved Solids</b> Analytical Method: SM 2540C									
Total Dissolved Solids	<b>371</b>	mg/L	25.0	10.0	1		04/15/19 21:22		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Chloride	<b>3.3</b>	mg/L	0.25	0.024	1		04/16/19 03:02	16887-00-6	
Fluoride	<b>0.061J</b>	mg/L	0.30	0.029	1		04/16/19 03:02	16984-48-8	
Sulfate	<b>83.6</b>	mg/L	10.0	0.17	10		04/17/19 17:06	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617267

**Sample: GWC-10**      **Lab ID: 2617267002**      Collected: 04/09/19 11:26      Received: 04/10/19 14:05      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**6020B MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A

Antimony	ND	mg/L	0.0030	0.00078	1	04/11/19 13:50	04/12/19 15:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	04/11/19 13:50	04/12/19 15:13	7440-38-2	
Barium	<b>0.17</b>	mg/L	0.010	0.00078	1	04/11/19 13:50	04/12/19 15:13	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/11/19 13:50	04/12/19 15:13	7440-41-7	
Boron	<b>0.035J</b>	mg/L	0.040	0.0039	1	04/11/19 13:50	04/12/19 15:13	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/11/19 13:50	04/12/19 15:13	7440-43-9	
Calcium	<b>48.8</b>	mg/L	25.0	0.69	50	04/11/19 13:50	04/12/19 15:19	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	04/11/19 13:50	04/12/19 15:13	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/11/19 13:50	04/12/19 15:13	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	04/11/19 13:50	04/12/19 15:13	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	04/11/19 13:50	04/12/19 15:13	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 15:13	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	04/11/19 13:50	04/12/19 15:13	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 15:13	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	04/11/19 13:50	04/12/19 15:13	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	04/11/19 13:50	04/12/19 15:13	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	04/11/19 13:50	04/12/19 15:13	7440-66-6	

**2540C Total Dissolved Solids**

Analytical Method: SM 2540C

Total Dissolved Solids	<b>213</b>	mg/L	25.0	10.0	1		04/15/19 21:22		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0

Chloride	<b>1.9</b>	mg/L	0.25	0.024	1		04/16/19 04:11	16887-00-6	B
Fluoride	<b>0.067J</b>	mg/L	0.30	0.029	1		04/16/19 04:11	16984-48-8	
Sulfate	<b>21.4</b>	mg/L	1.0	0.017	1		04/16/19 04:11	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617267

**Sample: GWC-20**      **Lab ID: 2617267003**      Collected: 04/09/19 14:16      Received: 04/10/19 14:05      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**6020B MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A

Antimony	ND	mg/L	0.0030	0.00078	1	04/11/19 13:50	04/12/19 15:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	04/11/19 13:50	04/12/19 15:24	7440-38-2	
Barium	<b>0.13</b>	mg/L	0.010	0.00078	1	04/11/19 13:50	04/12/19 15:24	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/11/19 13:50	04/12/19 15:24	7440-41-7	
Boron	<b>0.011J</b>	mg/L	0.040	0.0039	1	04/11/19 13:50	04/12/19 15:24	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/11/19 13:50	04/12/19 15:24	7440-43-9	
Calcium	<b>57.1</b>	mg/L	25.0	0.69	50	04/11/19 13:50	04/12/19 15:30	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	04/11/19 13:50	04/12/19 15:24	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/11/19 13:50	04/12/19 15:24	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	04/11/19 13:50	04/12/19 15:24	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	04/11/19 13:50	04/12/19 15:24	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 15:24	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	04/11/19 13:50	04/12/19 15:24	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 15:24	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	04/11/19 13:50	04/12/19 15:24	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	04/11/19 13:50	04/12/19 15:24	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	04/11/19 13:50	04/12/19 15:24	7440-66-6	

**2540C Total Dissolved Solids**

Analytical Method: SM 2540C

Total Dissolved Solids	<b>267</b>	mg/L	25.0	10.0	1		04/15/19 21:22		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0

Chloride	<b>1.8</b>	mg/L	0.25	0.024	1		04/16/19 04:34	16887-00-6	B
Fluoride	<b>0.056J</b>	mg/L	0.30	0.029	1		04/16/19 04:34	16984-48-8	
Sulfate	<b>50.3</b>	mg/L	1.0	0.017	1		04/16/19 04:34	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617267

**Sample: GWC-18**      **Lab ID: 2617267004**      Collected: 04/09/19 10:40      Received: 04/10/19 14:05      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020B MET ICPMS</b> Analytical Method: EPA 6020B      Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00078	1	04/11/19 13:50	04/12/19 15:36	7440-36-0	
Arsenic	<b>0.00063J</b>	mg/L	0.0050	0.00057	1	04/11/19 13:50	04/12/19 15:36	7440-38-2	
Barium	<b>0.081</b>	mg/L	0.010	0.00078	1	04/11/19 13:50	04/12/19 15:36	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/11/19 13:50	04/12/19 15:36	7440-41-7	
Boron	<b>0.12</b>	mg/L	0.040	0.0039	1	04/11/19 13:50	04/12/19 15:36	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/11/19 13:50	04/12/19 15:36	7440-43-9	
Calcium	<b>41.4</b>	mg/L	25.0	0.69	50	04/11/19 13:50	04/12/19 15:41	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	04/11/19 13:50	04/12/19 15:36	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/11/19 13:50	04/12/19 15:36	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	04/11/19 13:50	04/12/19 15:36	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	04/11/19 13:50	04/12/19 15:36	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 15:36	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	04/11/19 13:50	04/12/19 15:36	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 15:36	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	04/11/19 13:50	04/12/19 15:36	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	04/11/19 13:50	04/12/19 15:36	7440-62-2	
Zinc	<b>0.0037J</b>	mg/L	0.010	0.0021	1	04/11/19 13:50	04/12/19 15:36	7440-66-6	
<b>2540C Total Dissolved Solids</b> Analytical Method: SM 2540C									
Total Dissolved Solids	<b>212</b>	mg/L	25.0	10.0	1		04/15/19 21:22		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Chloride	<b>1.6</b>	mg/L	0.25	0.024	1		04/16/19 04:56	16887-00-6	B
Fluoride	<b>0.10J</b>	mg/L	0.30	0.029	1		04/16/19 04:56	16984-48-8	
Sulfate	<b>11.3</b>	mg/L	1.0	0.017	1		04/16/19 04:56	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617267

**Sample: GWC-19**      **Lab ID: 2617267005**      Collected: 04/09/19 12:35      Received: 04/10/19 14:05      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

**6020B MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A

Antimony	ND	mg/L	0.0030	0.00078	1	04/11/19 13:50	04/12/19 15:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	04/11/19 13:50	04/12/19 15:47	7440-38-2	
Barium	<b>0.15</b>	mg/L	0.010	0.00078	1	04/11/19 13:50	04/12/19 15:47	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/11/19 13:50	04/12/19 15:47	7440-41-7	
Boron	<b>0.17</b>	mg/L	0.040	0.0039	1	04/11/19 13:50	04/12/19 15:47	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/11/19 13:50	04/12/19 15:47	7440-43-9	
Calcium	<b>45.8</b>	mg/L	25.0	0.69	50	04/11/19 13:50	04/12/19 15:53	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	04/11/19 13:50	04/12/19 15:47	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/11/19 13:50	04/12/19 15:47	7440-48-4	
Copper	<b>0.0014J</b>	mg/L	0.025	0.0013	1	04/11/19 13:50	04/12/19 15:47	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	04/11/19 13:50	04/12/19 15:47	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 15:47	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	04/11/19 13:50	04/12/19 15:47	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 15:47	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	04/11/19 13:50	04/12/19 15:47	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	04/11/19 13:50	04/12/19 15:47	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	04/11/19 13:50	04/12/19 15:47	7440-66-6	

**2540C Total Dissolved Solids**

Analytical Method: SM 2540C

Total Dissolved Solids	<b>253</b>	mg/L	25.0	10.0	1		04/15/19 21:22		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0

Chloride	<b>1.9</b>	mg/L	0.25	0.024	1		04/16/19 05:19	16887-00-6	B
Fluoride	<b>0.10J</b>	mg/L	0.30	0.029	1		04/16/19 05:19	16984-48-8	
Sulfate	<b>16.7</b>	mg/L	1.0	0.017	1		04/16/19 05:19	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617267

Sample: <b>GWC-21</b>		Lab ID: <b>2617267006</b>		Collected: 04/09/19 10:37		Received: 04/10/19 14:05		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	04/11/19 13:50	04/12/19 15:59	7440-36-0		
Arsenic	<b>0.0018J</b>	mg/L	0.0050	0.00057	1	04/11/19 13:50	04/12/19 15:59	7440-38-2		
Barium	<b>0.050</b>	mg/L	0.010	0.00078	1	04/11/19 13:50	04/12/19 15:59	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/11/19 13:50	04/12/19 15:59	7440-41-7		
Boron	<b>0.014J</b>	mg/L	0.040	0.0039	1	04/11/19 13:50	04/12/19 15:59	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/11/19 13:50	04/12/19 15:59	7440-43-9		
Calcium	<b>35.4</b>	mg/L	25.0	0.69	50	04/11/19 13:50	04/12/19 16:04	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	04/11/19 13:50	04/12/19 15:59	7440-47-3		
Cobalt	<b>0.0023J</b>	mg/L	0.010	0.00052	1	04/11/19 13:50	04/12/19 15:59	7440-48-4		
Copper	ND	mg/L	0.025	0.0013	1	04/11/19 13:50	04/12/19 15:59	7440-50-8		
Lead	ND	mg/L	0.0050	0.00027	1	04/11/19 13:50	04/12/19 15:59	7439-92-1		
Nickel	<b>0.0048J</b>	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 15:59	7440-02-0		
Selenium	ND	mg/L	0.010	0.0014	1	04/11/19 13:50	04/12/19 15:59	7782-49-2		
Silver	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 15:59	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	04/11/19 13:50	04/12/19 15:59	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0019	1	04/11/19 13:50	04/12/19 15:59	7440-62-2		
Zinc	<b>0.0041J</b>	mg/L	0.010	0.0021	1	04/11/19 13:50	04/12/19 15:59	7440-66-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C								
Total Dissolved Solids	<b>167</b>	mg/L	25.0	10.0	1		04/15/19 21:22			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0								
Chloride	<b>2.6</b>	mg/L	0.25	0.024	1		04/16/19 05:42	16887-00-6	B	
Fluoride	<b>0.063J</b>	mg/L	0.30	0.029	1		04/16/19 05:42	16984-48-8		
Sulfate	<b>19.9</b>	mg/L	1.0	0.017	1		04/16/19 05:42	14808-79-8		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617267

Sample: GWC-22		Lab ID: 2617267007		Collected: 04/09/19 13:01		Received: 04/10/19 14:05		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	04/11/19 13:50	04/12/19 16:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	04/11/19 13:50	04/12/19 16:25	7440-38-2	
Barium	<b>0.094</b>	mg/L	0.010	0.00078	1	04/11/19 13:50	04/12/19 16:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/11/19 13:50	04/12/19 16:25	7440-41-7	
Boron	<b>0.063</b>	mg/L	0.040	0.0039	1	04/11/19 13:50	04/12/19 16:25	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/11/19 13:50	04/12/19 16:25	7440-43-9	
Calcium	<b>47.3</b>	mg/L	25.0	0.69	50	04/11/19 13:50	04/12/19 16:30	7440-70-2	
Chromium	<b>0.0023J</b>	mg/L	0.010	0.0016	1	04/11/19 13:50	04/12/19 16:25	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/11/19 13:50	04/12/19 16:25	7440-48-4	
Copper	ND	mg/L	0.025	0.0013	1	04/11/19 13:50	04/12/19 16:25	7440-50-8	
Lead	ND	mg/L	0.0050	0.00027	1	04/11/19 13:50	04/12/19 16:25	7439-92-1	
Nickel	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 16:25	7440-02-0	
Selenium	ND	mg/L	0.010	0.0014	1	04/11/19 13:50	04/12/19 16:25	7782-49-2	
Silver	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 16:25	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00014	1	04/11/19 13:50	04/12/19 16:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	04/11/19 13:50	04/12/19 16:25	7440-62-2	
Zinc	ND	mg/L	0.010	0.0021	1	04/11/19 13:50	04/12/19 16:25	7440-66-6	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>222</b>	mg/L	25.0	10.0	1		04/15/19 21:22		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Chloride	<b>1.7</b>	mg/L	0.25	0.024	1		04/16/19 06:05	16887-00-6	B
Fluoride	<b>0.063J</b>	mg/L	0.30	0.029	1		04/16/19 06:05	16984-48-8	
Sulfate	<b>11.0</b>	mg/L	1.0	0.017	1		04/16/19 06:05	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617267

QC Batch: 26237 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020B MET  
Associated Lab Samples: 2617267001, 2617267002, 2617267003, 2617267004, 2617267005, 2617267006, 2617267007

METHOD BLANK: 118407 Matrix: Water  
Associated Lab Samples: 2617267001, 2617267002, 2617267003, 2617267004, 2617267005, 2617267006, 2617267007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	04/12/19 14:10	
Arsenic	mg/L	ND	0.0050	0.00057	04/12/19 14:10	
Barium	mg/L	ND	0.010	0.00078	04/12/19 14:10	
Beryllium	mg/L	ND	0.0030	0.000050	04/12/19 14:10	
Boron	mg/L	ND	0.040	0.0039	04/12/19 14:10	
Cadmium	mg/L	ND	0.0010	0.000093	04/12/19 14:10	
Calcium	mg/L	ND	0.50	0.014	04/12/19 14:10	
Chromium	mg/L	ND	0.010	0.0016	04/12/19 14:10	
Cobalt	mg/L	ND	0.010	0.00052	04/12/19 14:10	
Copper	mg/L	ND	0.025	0.0013	04/12/19 14:10	
Lead	mg/L	ND	0.0050	0.00027	04/12/19 14:10	
Nickel	mg/L	ND	0.010	0.00095	04/12/19 14:10	
Selenium	mg/L	ND	0.010	0.0014	04/12/19 14:10	
Silver	mg/L	ND	0.010	0.00095	04/12/19 14:10	
Thallium	mg/L	ND	0.0010	0.00014	04/12/19 14:10	
Vanadium	mg/L	ND	0.010	0.0019	04/12/19 14:10	
Zinc	mg/L	ND	0.010	0.0021	04/12/19 14:10	

LABORATORY CONTROL SAMPLE: 118408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Calcium	mg/L	1	0.96	96	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Copper	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Nickel	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Silver	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.10	100	80-120	
Zinc	mg/L	0.1	0.10	100	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617267

Parameter	Units	2617267001		118409		118410		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20			
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20			
Barium	mg/L	0.067	0.1	0.1	0.17	0.17	103	99	75-125	2	20			
Beryllium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20			
Boron	mg/L	0.048	1	1	1.0	0.97	95	92	75-125	3	20			
Cadmium	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	1	20			
Calcium	mg/L	73.9	1	1	74.4	72.8	50	-109	75-125	2	20	M6		
Chromium	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	1	20			
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20			
Copper	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20			
Lead	mg/L	0.00039J	0.1	0.1	0.097	0.097	96	96	75-125	0	20			
Nickel	mg/L	0.00098J	0.1	0.1	0.099	0.098	98	97	75-125	1	20			
Selenium	mg/L	ND	0.1	0.1	0.095	0.099	95	99	75-125	5	20			
Silver	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20			
Thallium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	0	20			
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20			
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	99	100	75-125	1	20			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617267

QC Batch: 26352 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 2617267001, 2617267002, 2617267003, 2617267004, 2617267005, 2617267006, 2617267007

METHOD BLANK: 119015 Matrix: Water  
Associated Lab Samples: 2617267001, 2617267002, 2617267003, 2617267004, 2617267005, 2617267006, 2617267007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.31	0.25	0.024	04/16/19 02:16	
Fluoride	mg/L	ND	0.30	0.029	04/16/19 02:16	
Sulfate	mg/L	ND	1.0	0.017	04/16/19 02:16	

LABORATORY CONTROL SAMPLE: 119016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.1	101	90-110	
Fluoride	mg/L	10	9.3	93	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119017 119018

Parameter	Units	2617267001		119018		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	3.3	10	10	13.1	13.0	98	97	90-110	1	15
Fluoride	mg/L	0.061J	10	10	9.2	9.1	91	91	90-110	1	15
Sulfate	mg/L	83.6	10	10	81.4	81.5	-21	-21	90-110	0	15 M1

MATRIX SPIKE SAMPLE: 119019

Parameter	Units	2617267002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.9	10	11.5	96	90-110	
Fluoride	mg/L	0.067J	10	9.1	90	90-110	
Sulfate	mg/L	21.4	10	29.9	85	90-110 M1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Hammond

Pace Project No.: 2617267

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond

Pace Project No.: 2617267

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2617267001	GWC-5	EPA 3005A	26237	EPA 6020B	26241
2617267002	GWC-10	EPA 3005A	26237	EPA 6020B	26241
2617267003	GWC-20	EPA 3005A	26237	EPA 6020B	26241
2617267004	GWC-18	EPA 3005A	26237	EPA 6020B	26241
2617267005	GWC-19	EPA 3005A	26237	EPA 6020B	26241
2617267006	GWC-21	EPA 3005A	26237	EPA 6020B	26241
2617267007	GWC-22	EPA 3005A	26237	EPA 6020B	26241
2617267001	GWC-5	SM 2540C	26275		
2617267002	GWC-10	SM 2540C	26275		
2617267003	GWC-20	SM 2540C	26275		
2617267004	GWC-18	SM 2540C	26275		
2617267005	GWC-19	SM 2540C	26275		
2617267006	GWC-21	SM 2540C	26275		
2617267007	GWC-22	SM 2540C	26275		
2617267001	GWC-5	EPA 300.0	26352		
2617267002	GWC-10	EPA 300.0	26352		
2617267003	GWC-20	EPA 300.0	26352		
2617267004	GWC-18	EPA 300.0	26352		
2617267005	GWC-19	EPA 300.0	26352		
2617267006	GWC-21	EPA 300.0	26352		
2617267007	GWC-22	EPA 300.0	26352		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: **2** of **3**

### Section A

#### Required Client Information:

Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Maner Road  
 Atlanta, GA 30339  
 Email: jbraham@southernco.com  
 Phone: (404) 505-7239  
 Requested Due Date: 5-1-19

### Section B

#### Required Project Information:

Report To: Jolu Abraham  
 Copy To: Lauren Petty, Geosynlec  
 Purchase Order #: 9C910348606  
 Project Name: Plant Hammond  
 Project #: 177

### Section C

#### Invoice Information:

Attention: scsinvoices@southernco.com  
 Company Name:  
 Address:  
 Pace Quate:  
 Pace Project Manager: betsy.mcdaniel@paceilabs.com  
 Pace Profile #: 327 (AP) or 328 (Huff)  
 State: GA

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES		ANALYSES TEST	Residual Chlorine (Y/N)
			START DATE	END DATE				UNPRESERVED	OTHER		
1	Drinking Water	DW	4/9/19 10:10	4/9/19 10:40	G		1	H2SO4		Metals (App. III & App. IV)	
2	Waste Water	WW	4/9/19 12:15	4/9/19 12:35	G		2	HNO3		Metals (App. III & App. IV), D&O	
3	Waste Water	WW						HCl		Metals (App. III & D&O)	
4	Product	P						NaOH		TDS, Cl, F, SO4	
5	Soil/Solid	SL								Metals (App. III & D&O)	
6	Oil	OL								Metals (App. III & D&O)	
7	Wipe	WP								Metals (App. III & App. IV)	
8	Air	AR								Metals (App. III & App. IV)	
9	Other	OT								Metals (App. III & App. IV)	
10	Tissue	TS								Metals (App. III & App. IV)	

**SAMPLE ID**  
 One Character per box.  
 (A-Z, 0-9, /, -)  
 Sample IDs must be unique

GWC-18  
 GWC-19

*DOA*  
 4/9/19

**NO# : 2617267**

PM: BM Due Date: 04/17/19  
 CLIENT: GAPower-CCR

RECEIVED BY / AFFILIATION	DATE	TIME	TEMP IN C	RECEIVED ON	ICE (Y/N)	CURIOUSLY SEALED (Y/N)	COOLER (Y/N)	SAMPLES Intact (Y/N)
Dalton Anderson (Geo)	4/9/19	15:40						
Maria Mufson Geosynlec	4/10/19	1040						
Maria Mufson Geosynlec / Pace	4/10/19	1040						
M. Rabman	4/10/19	1405	2.9					

PRINT Name of SAMPLER: Dalton Anderson  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed: 4/9/19



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
**Required Client Information:**  
 Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Maner Road  
 Atlanta, GA 30339  
 Email: jabraham@southernco.com  
 Phone: (404) 506-7239  
 Requested Due Date: 5/2/2019 FAX

**Section B**  
**Required Project Information:**  
 Report To: Joji Abraham  
 Copy To: Lauren Petty, Geosyntec  
 Purchase Order #: SC910348608  
 Project Name: Plant Hammond  
 Project #:

**Section C**  
**Invoice Information:**  
 Attention: scsinvoices@southernco.com  
 Company Name:  
 Address:  
 Pace Project Manager: betsy.mcdaniel@paceclabs.com  
 Pace Profile #: 327 (AP) or 328 (Huff)  
 GA

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see vial codes to left)	# OF CONTAINERS		PRESERVATIVES	ANALYSES TEST	TEMP IN C	RECEIVED ON	ICE (Y/N)	CUSTODY SEALED (Y/N)	COOLER (Y/N)	SAMPLES (Y/N)	CONTACT (Y/N)
			START DATE	END DATE			START TIME	END TIME									
1	Drinking Water	DW	4/9/19 1028	4/9/19 1037	WG		2	1									
2	Waste Water	WW	4/9/19 1257	4/9/19 1301	WG		2	1									
3	Waste Water	WW															
4	Product	P															
5	Soil/Sediment	SL															
6	Oil	OL															
7	Wipe	WP															
8	Air	AR															
9	Other	OT															
10	Tissue	TS															

AIM 4/9/19

WO#: 2617267

PM: BM Due Date: 04/17/19  
CLIENT: GAPower-CCR

RECEIVED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
Melba Mufson for Pace	4/10/19	1040	Pace	4/10/19	1040
Melba Mufson	4/10/19	1405			

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Noelia Mustus  
 SIGNATURE of SAMPLER: *Noelia Mufson*  
 DATE Signed: 4/9/19



### Sample Condition Upon Receipt

Client Name: GA Power

Project # \_\_\_\_\_

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other  
Tracking #: \_\_\_\_\_

**WO#: 2617267**

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

PM: **BM** Due Date: **04/17/19**  
CLIENT: **GA Power-CCR**

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used 83 Type of Ice:  Wet  Blue  None

Samples on ice, cooling process has begun

Cooler Temperature 2.3 Biological Tissue is Frozen: Yes No  
Temp should be above freezing to 6°C

Date and Initials of person examining contents: 4/10/19 MK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



May 01, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

RE: Project: Plant Hammond  
Pace Project No.: 2617148

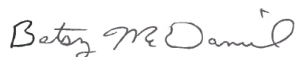
Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the one issued on 4/16/2019. The report has been revised to correct metals units per consultant request. No other changes have been made to this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond

Pace Project No.: 2617148

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### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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### Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Hammond

Pace Project No.: 2617148

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<b>Lab ID</b>	<b>Sample ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
2617148001	FB-01	Water	04/05/19 08:50	04/08/19 15:30

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### SAMPLE ANALYTE COUNT

Project: Plant Hammond

Pace Project No.: 2617148

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2617148001	FB-01	EPA 6020B	SER	19	PASI-A
		EPA 7470A	RDT	1	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617148

Sample: FB-01		Lab ID: 2617148001		Collected: 04/05/19 08:50		Received: 04/08/19 15:30		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3010A							
Antimony	ND	mg/L	0.0030	0.00011	1	04/16/19 07:51	04/16/19 18:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.000060	1	04/16/19 07:51	04/16/19 18:55	7440-38-2	
Barium	<b>0.000078J</b>	mg/L	0.010	0.000060	1	04/16/19 07:51	04/16/19 18:55	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/16/19 07:51	04/16/19 18:55	7440-41-7	
Boron	ND	mg/L	0.10	0.0026	1	04/16/19 07:51	04/16/19 18:55	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000070	1	04/16/19 07:51	04/16/19 18:55	7440-43-9	
Calcium	<b>0.024J</b>	mg/L	0.50	0.021	1	04/16/19 07:51	04/16/19 18:55	7440-70-2	
Chromium	ND	mg/L	0.010	0.00042	1	04/16/19 07:51	04/16/19 18:55	7440-47-3	
Cobalt	ND	mg/L	0.010	0.000050	1	04/16/19 07:51	04/16/19 18:55	7440-48-4	
Copper	ND	mg/L	0.025	0.00023	1	04/16/19 07:51	04/16/19 18:55	7440-50-8	
Lead	ND	mg/L	0.0050	0.000050	1	04/16/19 07:51	04/16/19 18:55	7439-92-1	
Lithium	ND	mg/L	0.050	0.00042	1	04/16/19 07:51	04/16/19 18:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00010	1	04/16/19 07:51	04/16/19 18:55	7439-98-7	
Nickel	ND	mg/L	0.010	0.00011	1	04/16/19 07:51	04/16/19 18:55	7440-02-0	
Selenium	ND	mg/L	0.010	0.000080	1	04/16/19 07:51	04/16/19 18:55	7782-49-2	
Silver	ND	mg/L	0.010	0.000050	1	04/16/19 07:51	04/16/19 18:55	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000060	1	04/16/19 07:51	04/16/19 18:55	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00012	1	04/16/19 07:51	04/16/19 18:55	7440-62-2	
Zinc	<b>0.017</b>	mg/L	0.010	0.0011	1	04/16/19 07:51	04/16/19 18:55	7440-66-6	C0
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00020	0.00010	1	04/11/19 21:25	04/15/19 18:37	7439-97-6	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		04/11/19 20:53		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Chloride	<b>0.11J</b>	mg/L	0.25	0.024	1		04/10/19 22:29	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		04/10/19 22:29	16984-48-8	
Sulfate	<b>0.069J</b>	mg/L	1.0	0.017	1		04/10/19 22:29	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617148

QC Batch: 468895	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
Associated Lab Samples: 2617148001	

METHOD BLANK: 2546716 Matrix: Water  
Associated Lab Samples: 2617148001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00010	04/15/19 18:06	

LABORATORY CONTROL SAMPLE: 2546717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2546718 2546719

Parameter	Units	92424398001 Result	MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Spike Conc.							
Mercury	mg/L	ND	0.0025	0.0019	0.0019	0.0025	77	77	75-125	0	25		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617148

QC Batch: 469500 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3010A Analysis Description: 6020 MET  
 Associated Lab Samples: 2617148001

METHOD BLANK: 2549697 Matrix: Water

Associated Lab Samples: 2617148001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00011	04/16/19 18:48	
Arsenic	mg/L	ND	0.0050	0.000060	04/16/19 18:48	
Barium	mg/L	ND	0.010	0.000060	04/16/19 18:48	
Beryllium	mg/L	ND	0.0030	0.000050	04/16/19 18:48	
Boron	mg/L	ND	0.10	0.0026	04/16/19 18:48	
Cadmium	mg/L	ND	0.0010	0.000070	04/16/19 18:48	
Calcium	mg/L	ND	0.50	0.021	04/16/19 18:48	
Chromium	mg/L	ND	0.010	0.00042	04/16/19 18:48	
Cobalt	mg/L	ND	0.010	0.000050	04/16/19 18:48	
Copper	mg/L	ND	0.025	0.00023	04/16/19 18:48	
Lead	mg/L	ND	0.0050	0.000050	04/16/19 18:48	
Lithium	mg/L	ND	0.050	0.00042	04/16/19 18:48	
Molybdenum	mg/L	ND	0.010	0.00010	04/16/19 18:48	
Nickel	mg/L	ND	0.010	0.00011	04/16/19 18:48	
Selenium	mg/L	ND	0.010	0.000080	04/16/19 18:48	
Silver	mg/L	ND	0.010	0.000050	04/16/19 18:48	
Thallium	mg/L	ND	0.0010	0.000060	04/16/19 18:48	
Vanadium	mg/L	ND	0.010	0.00012	04/16/19 18:48	
Zinc	mg/L	ND	0.010	0.0011	04/16/19 18:48	

LABORATORY CONTROL SAMPLE: 2549698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.098	98	80-120	
Arsenic	mg/L	0.01	0.0096	96	80-120	
Barium	mg/L	0.05	0.049	98	80-120	
Beryllium	mg/L	0.01	0.0096	96	80-120	
Boron	mg/L	0.05	0.048J	95	80-120	
Cadmium	mg/L	0.01	0.0099	99	80-120	
Calcium	mg/L	0.62	0.64	103	80-120	
Chromium	mg/L	0.05	0.048	97	80-120	
Cobalt	mg/L	0.01	0.0098J	98	80-120	
Copper	mg/L	0.05	0.049	98	80-120	
Lead	mg/L	0.05	0.050	99	80-120	
Lithium	mg/L	0.05	0.049J	98	80-120	
Molybdenum	mg/L	0.05	0.049	98	80-120	
Nickel	mg/L	0.05	0.049	97	80-120	
Selenium	mg/L	0.05	0.050	100	80-120	
Silver	mg/L	0.025	0.025	99	80-120	
Thallium	mg/L	0.01	0.010	100	80-120	

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617148

LABORATORY CONTROL SAMPLE: 2549698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	mg/L	0.05	0.049	98	80-120	
Zinc	mg/L	0.05	0.049	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2549699 2549700

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		2617148001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Arsenic	mg/L	ND	0.01	0.01	0.0098	0.0097	98	97	75-125	1	20	
Barium	mg/L	0.000078J	0.05	0.05	0.049	0.050	99	99	75-125	0	20	
Beryllium	mg/L	ND	0.01	0.01	0.0097	0.0097	97	97	75-125	0	20	
Boron	mg/L	ND	0.05	0.05	0.049J	0.050J	93	95	75-125	2	20	
Cadmium	mg/L	ND	0.01	0.01	0.010	0.0099	100	99	75-125	1	20	
Calcium	mg/L	0.024J	0.62	0.62	0.65	0.65	100	101	75-125	1	20	
Chromium	mg/L	ND	0.05	0.05	0.050	0.049	99	97	75-125	2	20	
Cobalt	mg/L	ND	0.01	0.01	0.010J	0.0099J	100	98	75-125	1	20	
Copper	mg/L	ND	0.05	0.05	0.050	0.050	101	99	75-125	2	20	
Lead	mg/L	ND	0.05	0.05	0.050	0.050	100	99	75-125	1	20	
Lithium	mg/L	ND	0.05	0.05	0.050J	0.048J	99	96	75-125	4	20	
Molybdenum	mg/L	ND	0.05	0.05	0.050	0.050	100	99	75-125	1	20	
Nickel	mg/L	ND	0.05	0.05	0.050	0.049	100	98	75-125	1	20	
Selenium	mg/L	ND	0.05	0.05	0.050	0.050	101	100	75-125	1	20	
Silver	mg/L	ND	0.025	0.025	0.025	0.025	100	100	75-125	0	20	
Thallium	mg/L	ND	0.01	0.01	0.010	0.0099	100	99	75-125	1	20	
Vanadium	mg/L	ND	0.05	0.05	0.050	0.049	99	98	75-125	1	20	
Zinc	mg/L	0.017	0.05	0.05	0.067	0.066	99	98	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617148

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QC Batch: 26252	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2617148001	

---

LABORATORY CONTROL SAMPLE: 118510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	84-108	

---

SAMPLE DUPLICATE: 118512

Parameter	Units	2617150003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2310	2380	3	10	

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617148

QC Batch: 26135 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 2617148001

METHOD BLANK: 117979 Matrix: Water  
Associated Lab Samples: 2617148001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.064J	0.25	0.024	04/10/19 21:47	
Fluoride	mg/L	ND	0.30	0.029	04/10/19 21:47	
Sulfate	mg/L	ND	1.0	0.017	04/10/19 21:47	

LABORATORY CONTROL SAMPLE: 117980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117981 117982

Parameter	Units	2617207001 Result	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	0.25J	10	10	9.9	10	96	97	90-110	1	15		
Fluoride	mg/L	ND	10	10	9.5	9.6	95	96	90-110	1	15		
Sulfate	mg/L	0.13J	10	10	9.5	9.6	94	94	90-110	1	15		

MATRIX SPIKE SAMPLE: 117983

Parameter	Units	2617150001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	131	10	10.5	-1210	90-110	
Fluoride	mg/L	0.13J	10	9.4	93	90-110	
Sulfate	mg/L	392	10	13.7	-3780	90-110	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Hammond

Pace Project No.: 2617148

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

C0 Result confirmed by second analysis.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond

Pace Project No.: 2617148

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2617148001	FB-01	EPA 3010A	469500	EPA 6020B	469558
2617148001	FB-01	EPA 7470A	468895	EPA 7470A	468941
2617148001	FB-01	SM 2540C	26252		
2617148001	FB-01	EPA 300.0	26135		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A  
 Required Client Information:  
 Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Maner Road  
 Atlanta, GA 30339  
 Phone: (404) 506-7239  
 Email: jahraham@southemco.com  
 Requested Due Date: Standard

Section B  
 Required Project Information:  
 Report To: Jolu Abraham  
 Copy To: Lauren Petty, Geosyntec  
 Purchase Order #: SCS10348606  
 Project Name: Plant Hammond  
 Project #:

Section C  
 Invoice Information:  
 Attention: sesinvoicess@southemco.com  
 Company Name:  
 Address:  
 Pace Quibbe:  
 Pace Project Manager: betsy.mcdaniel@pacelabs.com  
 Pace Profile #: 327 (AP) or 328 (Huff)

Regulatory Agency: GA  
 State: GA

ITEM #	MATRIX	MATRIX CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS		Preservatives	Analytes Test	Requested Analytes	Reference	Y/N
			START DATE	END DATE			TIME	TIME					
1	Drinking Water	DW	4/15/19	0930	17	5	2	3	H2SO4 Unpreserved	Metals (App. III & App. IV) Metals (App. III, App. IV, D&O) TDS, Cl, F, SO4 Radium 226/228			
2	Waste Water	WW							HCl NaOH Na2S2O3 Methanol Other				
3	Waste Water	WW											
4	Process	P											
5	Sludge	SL											
6	Oil	OL											
7	Waste	WP											
8	Air	AR											
9	Other	OT											
10	Tissue	TS											

ADDITIONAL COMMENTS: APM  
4/15/19  
**NO# : 2617148**

RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME	TEMP IN C	Received on	Ice (Y/N)	Custody	Sealed	Cooler (Y/N)	Samples Intact (Y/N)
<u>Apollia Mufson/Geosyntec</u>	<u>4/15/19</u>	<u>1945</u>	<u>Apollia Mufson/Geosyntec</u>	<u>4/15/19</u>	<u>1945</u>							
<u>Jepp/Geosyntec</u>	<u>4/18/19</u>	<u>1116</u>	<u>Jepp/Geosyntec</u>	<u>4/18/19</u>	<u>1116</u>							
<u>Madalman</u>	<u>4/18/19</u>	<u>1530</u>	<u>Madalman</u>	<u>4/18/19</u>	<u>1530</u>							

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Nodia Muskus  
 SIGNATURE of SAMPLER: Apollia Mufson  
 DATE Signed: 4/15/19



Sample Condition Upon Receipt

Client Name: GTA Power

Project # \_\_\_\_\_

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used 83 Type of Ice:  Wet  Blue  None

Cooler Temperature 1.1

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

WO#: **2617148**

PM: **BM** Due Date: **04/15/19**

CLIENT: **GAPower-CCR**

Samples on ice, cooling process has begun

Date and Initials of person examining contents: 4/8/19 MR

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/Resolution: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Field Data Required? Y / N

Person Contacted: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

May 03, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

RE: Project: Plant Hammond  
Pace Project No.: 2617207

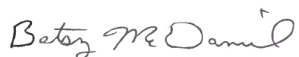
Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the one issued on 4/16/2019. The report has been revised to correct metals units per consultant request. No other changes have been made to this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond

Pace Project No.: 2617207

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### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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### Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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## SAMPLE SUMMARY

Project: Plant Hammond  
Pace Project No.: 2617207

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
2617207001	FB-02	Water	04/08/19 17:45	04/09/19 13:30
2617207002	EB-01	Water	04/08/19 18:00	04/09/19 13:30

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### SAMPLE ANALYTE COUNT

Project: Plant Hammond

Pace Project No.: 2617207

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2617207001	FB-02	EPA 6020B	JMW1	19	PASI-A
		EPA 7470A	RDT	1	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA
2617207002	EB-01	EPA 6020B	JMW1	19	PASI-A
		EPA 7470A	RDT	1	PASI-A
		SM 2540C	RLC	1	PASI-GA
		EPA 300.0	RLC	3	PASI-GA

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant Hammond  
Pace Project No.: 2617207

Sample: <b>FB-02</b>		Lab ID: <b>2617207001</b>		Collected: 04/08/19 17:45		Received: 04/09/19 13:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 01:04	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 01:04	7440-38-2		
Barium	ND	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 01:04	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 01:04	7440-41-7		
Boron	ND	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 01:04	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 01:04	7440-43-9		
Calcium	ND	mg/L	0.50	0.021	1	04/10/19 19:59	04/12/19 01:04	7440-70-2		
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 01:04	7440-47-3		
Cobalt	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 01:04	7440-48-4		
Copper	ND	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 01:04	7440-50-8		
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 01:04	7439-92-1		
Lithium	ND	mg/L	0.050	0.00042	1	04/10/19 19:59	04/12/19 01:04	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00010	1	04/10/19 19:59	04/12/19 01:04	7439-98-7		
Nickel	ND	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 01:04	7440-02-0		
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 01:04	7782-49-2		
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 01:04	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 01:04	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 01:04	7440-62-2		
Zinc	ND	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 01:04	7440-66-6		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00010	1	04/11/19 21:25	04/15/19 18:39	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C								
Total Dissolved Solids	<b>14.0J</b>	mg/L	25.0	10.0	1		04/11/19 20:54			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0								
Chloride	<b>0.25J</b>	mg/L	0.25	0.024	1		04/11/19 00:54	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		04/11/19 00:54	16984-48-8		
Sulfate	<b>0.13J</b>	mg/L	1.0	0.017	1		04/11/19 00:54	14808-79-8		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617207

Sample: EB-01		Lab ID: 2617207002		Collected: 04/08/19 18:00		Received: 04/09/19 13:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Antimony	ND	mg/L	0.0030	0.00011	1	04/10/19 19:59	04/12/19 01:08	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.000060	1	04/10/19 19:59	04/12/19 01:08	7440-38-2		
Barium	ND	mg/L	0.010	0.000060	1	04/10/19 19:59	04/12/19 01:08	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/10/19 19:59	04/12/19 01:08	7440-41-7		
Boron	ND	mg/L	0.10	0.0026	1	04/10/19 19:59	04/12/19 01:08	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000070	1	04/10/19 19:59	04/12/19 01:08	7440-43-9		
Calcium	ND	mg/L	0.50	0.021	1	04/10/19 19:59	04/12/19 01:08	7440-70-2		
Chromium	ND	mg/L	0.010	0.00042	1	04/10/19 19:59	04/12/19 01:08	7440-47-3		
Cobalt	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 01:08	7440-48-4		
Copper	ND	mg/L	0.025	0.00023	1	04/10/19 19:59	04/12/19 01:08	7440-50-8		
Lead	ND	mg/L	0.0050	0.000050	1	04/10/19 19:59	04/12/19 01:08	7439-92-1		
Lithium	ND	mg/L	0.050	0.00042	1	04/10/19 19:59	04/12/19 01:08	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00010	1	04/10/19 19:59	04/12/19 01:08	7439-98-7		
Nickel	ND	mg/L	0.010	0.00011	1	04/10/19 19:59	04/12/19 01:08	7440-02-0		
Selenium	ND	mg/L	0.010	0.000080	1	04/10/19 19:59	04/12/19 01:08	7782-49-2		
Silver	ND	mg/L	0.010	0.000050	1	04/10/19 19:59	04/12/19 01:08	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000060	1	04/10/19 19:59	04/12/19 01:08	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00012	1	04/10/19 19:59	04/12/19 01:08	7440-62-2		
Zinc	ND	mg/L	0.010	0.0011	1	04/10/19 19:59	04/12/19 01:08	7440-66-6		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00010	1	04/11/19 21:25	04/15/19 18:41	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C								
Total Dissolved Solids	<b>12.0J</b>	mg/L	25.0	10.0	1		04/11/19 20:54			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0								
Chloride	<b>0.22J</b>	mg/L	0.25	0.024	1		04/11/19 03:19	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		04/11/19 03:19	16984-48-8		
Sulfate	<b>0.38J</b>	mg/L	1.0	0.017	1		04/11/19 03:19	14808-79-8		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617207

QC Batch: 468895

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2617207001, 2617207002

METHOD BLANK: 2546716

Matrix: Water

Associated Lab Samples: 2617207001, 2617207002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00010	04/15/19 18:06	

LABORATORY CONTROL SAMPLE: 2546717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2546718 2546719

Parameter	Units	92424398001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury	mg/L	ND	0.0025	0.0019	0.0019	77	77	75-125	0	25		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617207

QC Batch: 468622 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3010A Analysis Description: 6020 MET  
Associated Lab Samples: 2617207001, 2617207002

METHOD BLANK: 2545263 Matrix: Water  
Associated Lab Samples: 2617207001, 2617207002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00011	04/11/19 20:42	
Arsenic	mg/L	ND	0.0050	0.000060	04/11/19 20:42	
Barium	mg/L	ND	0.010	0.000060	04/11/19 20:42	
Beryllium	mg/L	ND	0.0030	0.000050	04/11/19 20:42	
Boron	mg/L	ND	0.10	0.0026	04/11/19 20:42	
Cadmium	mg/L	ND	0.0010	0.000070	04/11/19 20:42	
Calcium	mg/L	ND	0.50	0.021	04/11/19 20:42	
Chromium	mg/L	ND	0.010	0.00042	04/11/19 20:42	
Cobalt	mg/L	ND	0.010	0.000050	04/11/19 20:42	
Copper	mg/L	ND	0.025	0.00023	04/11/19 20:42	
Lead	mg/L	ND	0.0050	0.000050	04/11/19 20:42	
Lithium	mg/L	ND	0.050	0.00042	04/11/19 20:42	
Molybdenum	mg/L	ND	0.010	0.00010	04/11/19 20:42	
Nickel	mg/L	ND	0.010	0.00011	04/11/19 20:42	
Selenium	mg/L	ND	0.010	0.000080	04/11/19 20:42	
Silver	mg/L	ND	0.010	0.000050	04/11/19 20:42	
Thallium	mg/L	ND	0.0010	0.000060	04/11/19 20:42	
Vanadium	mg/L	ND	0.010	0.00012	04/11/19 20:42	
Zinc	mg/L	ND	0.010	0.0011	04/11/19 20:42	

LABORATORY CONTROL SAMPLE: 2545264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.01	0.0099	99	80-120	
Barium	mg/L	0.05	0.049	99	80-120	
Beryllium	mg/L	0.01	0.010	104	80-120	
Boron	mg/L	0.05	0.052J	104	80-120	
Cadmium	mg/L	0.01	0.010	102	80-120	
Calcium	mg/L	0.62	0.64	102	80-120	
Chromium	mg/L	0.05	0.051	102	80-120	
Cobalt	mg/L	0.01	0.010	102	80-120	
Copper	mg/L	0.05	0.051	103	80-120	
Lead	mg/L	0.05	0.050	100	80-120	
Lithium	mg/L	0.05	0.050	100	80-120	
Molybdenum	mg/L	0.05	0.051	102	80-120	
Nickel	mg/L	0.05	0.051	102	80-120	
Selenium	mg/L	0.05	0.051	101	80-120	
Silver	mg/L	0.025	0.025	102	80-120	
Thallium	mg/L	0.01	0.010	100	80-120	

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617207

LABORATORY CONTROL SAMPLE: 2545264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	mg/L	0.05	0.051	101	80-120	
Zinc	mg/L	0.05	0.051	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2545265 2545266

Parameter	Units	2545265		2545266		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Arsenic	mg/L	0.01	0.01	0.0091J	0.0089J	91	89	75-125	2	20	
Barium	mg/L	0.05	0.05	0.085	0.085	85	85	75-125	0	20	
Beryllium	mg/L	0.01	0.01	0.0086	0.0089	86	89	75-125	4	20	
Boron	mg/L	1.0J	0.05	0.05	1.0J	67	48	75-125	1	20 M6	
Cadmium	mg/L	0.01	0.01	0.011	0.011	99	99	75-125	0	20	
Calcium	mg/L	70.0	0.62	0.62	71.3	74.8	207	759	75-125	5	20 M6
Chromium	mg/L	0.05	0.05	0.048	0.048	96	95	75-125	1	20	
Cobalt	mg/L	0.01	0.01	0.015	0.015	97	96	75-125	1	20	
Copper	mg/L	0.05	0.05	0.049	0.048	98	97	75-125	1	20	
Lead	mg/L	0.05	0.05	0.048	0.048	96	96	75-125	0	20	
Lithium	mg/L	0.05	0.05	0.043J	0.044J	82	85	75-125	3	20	
Molybdenum	mg/L	0.05	0.05	0.050	0.049	99	99	75-125	1	20	
Nickel	mg/L	0.05	0.05	0.051	0.051	96	96	75-125	0	20	
Selenium	mg/L	0.05	0.05	0.044	0.044	89	88	75-125	1	20	
Silver	mg/L	0.025	0.025	0.023	0.023	92	91	75-125	1	20	
Thallium	mg/L	0.01	0.01	0.0096	0.0096	96	96	75-125	0	20	
Vanadium	mg/L	0.05	0.05	0.050	0.050	100	100	75-125	0	20	
Zinc	mg/L	0.05	0.05	0.047	0.047	86	86	75-125	0	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617207

QC Batch: 26252

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2617207001, 2617207002

LABORATORY CONTROL SAMPLE: 118510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	84-108	

SAMPLE DUPLICATE: 118512

Parameter	Units	2617150003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2310	2380	3	10	

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617207

QC Batch: 26135 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 2617207001, 2617207002

METHOD BLANK: 117979 Matrix: Water  
Associated Lab Samples: 2617207001, 2617207002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.064J	0.25	0.024	04/10/19 21:47	
Fluoride	mg/L	ND	0.30	0.029	04/10/19 21:47	
Sulfate	mg/L	ND	1.0	0.017	04/10/19 21:47	

LABORATORY CONTROL SAMPLE: 117980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.2	102	90-110	
Fluoride	mg/L	10	10.0	100	90-110	
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117981 117982

Parameter	Units	2617207001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Chloride	mg/L	0.25J	10	10	9.9	10	96	97	90-110	1	15	
Fluoride	mg/L	ND	10	10	9.5	9.6	95	96	90-110	1	15	
Sulfate	mg/L	0.13J	10	10	9.5	9.6	94	94	90-110	1	15	

MATRIX SPIKE SAMPLE: 117983

Parameter	Units	2617150001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	131	10	10.5	-1210	90-110	
Fluoride	mg/L	0.13J	10	9.4	93	90-110	
Sulfate	mg/L	392	10	13.7	-3780	90-110	

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## QUALIFIERS

Project: Plant Hammond

Pace Project No.: 2617207

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond  
Pace Project No.: 2617207

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2617207001	FB-02	EPA 3010A	468622	EPA 6020B	468673
2617207002	EB-01	EPA 3010A	468622	EPA 6020B	468673
2617207001	FB-02	EPA 7470A	468895	EPA 7470A	468941
2617207002	EB-01	EPA 7470A	468895	EPA 7470A	468941
2617207001	FB-02	SM 2540C	26252		
2617207002	EB-01	SM 2540C	26252		
2617207001	FB-02	EPA 300.0	26135		
2617207002	EB-01	EPA 300.0	26135		

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A  
 Required Client Information:  
 Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Wiener Road  
 Atlanta, GA 30339  
 Email: jabraham@southemco.com  
 Phone: (404)508-7239  
 Requested Date: Standard TXI


Section B  
 Required Project Information:  
 Report To: Joju Abraham  
 Copy To: Lauren Peaty, Geosyntec  
 Purchase Order #: SCS10348606  
 Project Name: Plant Hammond  
 Project #:

Section C  
 Invoice Information:  
 Attention: scsinvoices@southemco.com  
 Company Name:  
 Address:  
 Pace Project Manager: baisy.mcdaniel@paceilabs.com  
 Pace Profile #: 327 (AP) or 328 (Huff)

Page: 1 of 1

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	PRESERVATIVES		# OF CONTAINERS	ANALYSES TEST	RECEIVED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
			START	END			H2SO4	HNO3														
1	Drinking Water	DW	4/8/19 1740	4/8/19 1745	WT6		H2SO4		5													
2	Waste Water	WW	4/8/19 1755	4/8/19 1800	WT6		H2SO4		5													
<p>RESIDUAL CHLORINE</p> <p>RESIDUAL CHLORINE (Y/N)</p>																						

NO#: 2617207



NO: 2617207

4/8/19	2010	EB Law/Geosyntec	4/8/19	2010	EB Law/Geosyntec
4/9/19	1127	EB Law/Geosyntec	4/9/19	1127	EB Law/Geosyntec
4/19/19		2617207	4/19/19		2617207

PRINT Name of SAMPLER: Noelia Mustos  
 SIGNATURE of SAMPLER: Noelia Mustos  
 DATE Signed: 4/8/19

**Sample Condition Upon Receipt**



Client Name: GIA Power

Project # \_\_\_\_\_

**WO#: 2617207**

PM: **BM** Due Date: **04/16/19**  
 CLIENT: **GAPower-CCR**

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used 83 Type of Ice:  Wet  Blue  None

Cooler Temperature 0.7 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Samples on ice, cooling process has begun

Date and Initials of person examining contents: 4/9/19 MK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):	_____		

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (ie out of hold, incorrect preservative, out of temp, incorrect containers)

April 18, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

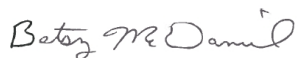
RE: Project: Plant Hammond  
Pace Project No.: 2617269

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond

Pace Project No.: 2617269

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### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant Hammond  
Pace Project No.: 2617269

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
2617269001	EB-02	Water	04/09/19 15:30	04/10/19 14:05

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**SAMPLE ANALYTE COUNT**

Project: Plant Hammond  
Pace Project No.: 2617269

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2617269001	EB-02	EPA 6020B	CSW	19
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3

**REPORT OF LABORATORY ANALYSIS**

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## ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2617269

Sample: EB-02		Lab ID: 2617269001		Collected: 04/09/19 15:30		Received: 04/10/19 14:05		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	04/11/19 13:50	04/12/19 16:42	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	04/11/19 13:50	04/12/19 16:42	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	04/11/19 13:50	04/12/19 16:42	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/11/19 13:50	04/12/19 16:42	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	04/11/19 13:50	04/12/19 16:42	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/11/19 13:50	04/12/19 16:42	7440-43-9		
Calcium	ND	mg/L	0.50	0.014	1	04/11/19 13:50	04/12/19 16:42	7440-70-2		
Chromium	<b>0.028</b>	mg/L	0.010	0.0016	1	04/11/19 13:50	04/12/19 16:42	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	04/11/19 13:50	04/12/19 16:42	7440-48-4		
Copper	ND	mg/L	0.025	0.0013	1	04/11/19 13:50	04/12/19 16:42	7440-50-8		
Lead	ND	mg/L	0.0050	0.00027	1	04/11/19 13:50	04/12/19 16:42	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	04/11/19 13:50	04/12/19 16:42	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	04/11/19 13:50	04/12/19 16:42	7439-98-7		
Nickel	<b>0.0071J</b>	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 16:42	7440-02-0		
Selenium	ND	mg/L	0.010	0.0014	1	04/11/19 13:50	04/12/19 16:42	7782-49-2		
Silver	ND	mg/L	0.010	0.00095	1	04/11/19 13:50	04/12/19 16:42	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00014	1	04/11/19 13:50	04/12/19 16:42	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0019	1	04/11/19 13:50	04/12/19 16:42	7440-62-2		
Zinc	<b>0.0021J</b>	mg/L	0.010	0.0021	1	04/11/19 13:50	04/12/19 16:42	7440-66-6		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	04/12/19 09:10	04/12/19 14:25	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C								
Total Dissolved Solids	<b>20.0J</b>	mg/L	25.0	10.0	1		04/15/19 21:23			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0								
Chloride	<b>0.38</b>	mg/L	0.25	0.024	1		04/16/19 06:28	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		04/16/19 06:28	16984-48-8		
Sulfate	<b>0.13J</b>	mg/L	1.0	0.017	1		04/16/19 06:28	14808-79-8		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617269

QC Batch: 26291 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Associated Lab Samples: 2617269001

METHOD BLANK: 118724 Matrix: Water  
Associated Lab Samples: 2617269001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000036	04/12/19 13:52	

LABORATORY CONTROL SAMPLE: 118725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118726 118727

Parameter	Units	2617267001 Result	MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Spike Conc.	Conc.							
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0025	101	101	75-125	0	20		

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617269

QC Batch: 26237 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020B MET  
Associated Lab Samples: 2617269001

METHOD BLANK: 118407 Matrix: Water  
Associated Lab Samples: 2617269001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	04/12/19 14:10	
Arsenic	mg/L	ND	0.0050	0.00057	04/12/19 14:10	
Barium	mg/L	ND	0.010	0.00078	04/12/19 14:10	
Beryllium	mg/L	ND	0.0030	0.000050	04/12/19 14:10	
Boron	mg/L	ND	0.040	0.0039	04/12/19 14:10	
Cadmium	mg/L	ND	0.0010	0.000093	04/12/19 14:10	
Calcium	mg/L	ND	0.50	0.014	04/12/19 14:10	
Chromium	mg/L	ND	0.010	0.0016	04/12/19 14:10	
Cobalt	mg/L	ND	0.010	0.00052	04/12/19 14:10	
Copper	mg/L	ND	0.025	0.0013	04/12/19 14:10	
Lead	mg/L	ND	0.0050	0.00027	04/12/19 14:10	
Lithium	mg/L	ND	0.050	0.00097	04/12/19 14:10	
Molybdenum	mg/L	ND	0.010	0.0019	04/12/19 14:10	
Nickel	mg/L	ND	0.010	0.00095	04/12/19 14:10	
Selenium	mg/L	ND	0.010	0.0014	04/12/19 14:10	
Silver	mg/L	ND	0.010	0.00095	04/12/19 14:10	
Thallium	mg/L	ND	0.0010	0.00014	04/12/19 14:10	
Vanadium	mg/L	ND	0.010	0.0019	04/12/19 14:10	
Zinc	mg/L	ND	0.010	0.0021	04/12/19 14:10	

LABORATORY CONTROL SAMPLE: 118408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Calcium	mg/L	1	0.96	96	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Copper	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Nickel	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Silver	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617269

LABORATORY CONTROL SAMPLE: 118408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	mg/L	0.1	0.10	100	80-120	
Zinc	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118409 118410

Parameter	Units	2617267001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20		
Barium	mg/L	0.067	0.1	0.1	0.17	0.17	103	99	75-125	2	20		
Beryllium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20		
Boron	mg/L	0.048	1	1	1.0	0.97	95	92	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	1	20		
Calcium	mg/L	73.9	1	1	74.4	72.8	50	-109	75-125	2	20	M6	
Chromium	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20		
Copper	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20		
Lead	mg/L	0.00039J	0.1	0.1	0.097	0.097	96	96	75-125	0	20		
Lithium	mg/L	0.031J	0.1	0.1	0.12	0.12	93	90	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Nickel	mg/L	0.00098J	0.1	0.1	0.099	0.098	98	97	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.095	0.099	95	99	75-125	5	20		
Silver	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	0	20		
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	99	100	75-125	1	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2617269

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QC Batch: 26275	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2617269001	

---

LABORATORY CONTROL SAMPLE: 118616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	381	95	84-108	

---

SAMPLE DUPLICATE: 118618

Parameter	Units	2617267003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	252	6	10	

---

SAMPLE DUPLICATE: 118698

Parameter	Units	2617209006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	264	245	7	10	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2617269

QC Batch: 26352 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 2617269001

METHOD BLANK: 119015 Matrix: Water  
Associated Lab Samples: 2617269001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.31	0.25	0.024	04/16/19 02:16	
Fluoride	mg/L	ND	0.30	0.029	04/16/19 02:16	
Sulfate	mg/L	ND	1.0	0.017	04/16/19 02:16	

LABORATORY CONTROL SAMPLE: 119016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.1	101	90-110	
Fluoride	mg/L	10	9.3	93	90-110	
Sulfate	mg/L	10	10.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 119017 119018

Parameter	Units	2617267001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	3.3	10	10	13.1	13.0	98	97	90-110	1	15			
Fluoride	mg/L	0.061J	10	10	9.2	9.1	91	91	90-110	1	15			
Sulfate	mg/L	83.6	10	10	81.4	81.5	-21	-21	90-110	0	15 M1			

MATRIX SPIKE SAMPLE: 119019

Parameter	Units	2617267002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.9	10	11.5	96	90-110	
Fluoride	mg/L	0.067J	10	9.1	90	90-110	
Sulfate	mg/L	21.4	10	29.9	85	90-110 M1	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Hammond

Pace Project No.: 2617269

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond

Pace Project No.: 2617269

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2617269001	EB-02	EPA 3005A	26237	EPA 6020B	26241
2617269001	EB-02	EPA 7470A	26291	EPA 7470A	26328
2617269001	EB-02	SM 2540C	26275		
2617269001	EB-02	EPA 300.0	26352		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

### Section A

#### Required Client Information:

Company: Georgia Power - Coal Combustion Residuals  
 Address: 2480 Maner Road  
 Atlanta, GA 30339  
 Email: jbraham@southemco.com  
 Phone: (404)506-7239 Fax: **Standard**  
 Requested Due Date: **Standard**

### Section B

#### Required Project Information:

Report To: Jaji Abraham  
 Copy To: Lauren Petty, Geosyntec  
 Atlanta, GA 30339  
 Purchase Order #: SCS10348606  
 Project Name: Plant Hammond  
 Project #: **Standard**

### Section C

#### Invoice Information:

Attention: scsinvoices@southemco.com  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: betsy.mcdaniel@pacelabs.com.  
 Pace Profile #: 327 (AP) or 328 (Huff)

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to len)	# OF CONTAINERS	UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	ANALYSIS TEST	Metals (App. III & App. IV)	Metals (App. III, App. IV, D&O)	TDS, Cl, F, SO4	Radium 226/228	Residual Chlorine (Y/N)	
			START DATE	END DATE																		START TIME
1	Drinking Water	DW	4/19/19	4/19/19	15:30	20	2	1														
2	Waste Water	WW																				
3	Waste Water Product	WP																				
4	Soil/Solid	SL																				
5	Oil	OL																				
6	Wipe	WP																				
7	Air	AR																				
8	Other	OT																				
9	These	TS																				

**SAMPLE ID**  
 One Character per box.  
 (A-Z, 0-9, /, -)  
 Sample IDs must be unique

ED-02

4/19/19

AM

NO#: 2617269



DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	TEMP IN C	Ice (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
4/19/19	15:30	Melissa McFadden	4/19/19	10:40	3 - 1 Pace					

*M. Rahman*  
 M. Rahman

PRINT Name of SAMPLER: Noelia Mustias  
 SIGNATURE of SAMPLER: *Noelia Mustias*  
 DATE Signed: 4/19/19



Sample Condition Upon Receipt

Client Name: GIA Power

Project # \_\_\_\_\_

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other Tracking #: \_\_\_\_\_

WO#: **2617269**

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes

PM: **BM** Due Date: **04/17/19**  
CLIENT: **GAPower-CCR**

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used 83 Type of Ice:  Wet  Blue  None

Cooler Temperature 2.3 Biological Tissue is Frozen: Yes No  Samples on ice, cooling process has begun

Date and Initials of person examining contents: 4/10/19 MK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):	_____		

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

June 20, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

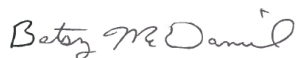
RE: Project: Plant Hammond  
Pace Project No.: 2619807

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond

Pace Project No.: 2619807

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### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Hammond

Pace Project No.: 2619807

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<b>Lab ID</b>	<b>Sample ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
2619807001	EB-01	Water	06/17/19 09:54	06/18/19 12:00

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### SAMPLE ANALYTE COUNT

Project: Plant Hammond

Pace Project No.: 2619807

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2619807001	EB-01	EPA 6020B	CSW	3
		SM 2540C	M1O	1
		EPA 300.0	MWB	3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Hammond

Pace Project No.: 2619807

Sample: EB-01		Lab ID: 2619807001		Collected: 06/17/19 09:54	Received: 06/18/19 12:00	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Barium	ND	mg/L	0.010	0.00049	1	06/18/19 16:30	06/19/19 16:47	7440-39-3		
Boron	ND	mg/L	0.040	0.0049	1	06/18/19 16:30	06/19/19 16:47	7440-42-8		
Calcium	ND	mg/L	0.10	0.011	1	06/18/19 16:30	06/19/19 16:47	7440-70-2		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C								
Total Dissolved Solids	<b>14.0</b>	mg/L	10.0	10.0	1		06/19/19 17:31			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0								
Chloride	<b>0.93</b>	mg/L	0.25	0.024	1		06/20/19 06:47	16887-00-6		
Fluoride	<b>0.33</b>	mg/L	0.30	0.029	1		06/20/19 06:47	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		06/20/19 06:47	14808-79-8		

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2619807

QC Batch: 30489 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020B MET  
Associated Lab Samples: 2619807001

METHOD BLANK: 137204 Matrix: Water  
Associated Lab Samples: 2619807001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/L	ND	0.010	0.00049	06/19/19 15:18	
Boron	mg/L	ND	0.040	0.0049	06/19/19 15:18	
Calcium	mg/L	ND	0.10	0.011	06/19/19 15:18	

LABORATORY CONTROL SAMPLE: 137205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.96	96	80-120	
Calcium	mg/L	1	0.91	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 137206 137207

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		2619806001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Barium	mg/L	0.052	0.1	0.1	0.15	0.15	100	100	75-125	0	20		
Boron	mg/L	1.1	1	1	2.1	2.1	97	100	75-125	1	20		
Calcium	mg/L	164	1	1	168	176	381	1150	75-125	4	20 M6		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond

Pace Project No.: 2619807

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QC Batch: 30523	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2619807001	

---

LABORATORY CONTROL SAMPLE: 137322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	414	104	84-108	

---

SAMPLE DUPLICATE: 137323

Parameter	Units	2619806002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	751	783	4	10	

---

SAMPLE DUPLICATE: 137664

Parameter	Units	2619850002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	233	256	9	10	

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### QUALITY CONTROL DATA

Project: Plant Hammond  
Pace Project No.: 2619807

QC Batch: 30603 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 2619807001

METHOD BLANK: 137790 Matrix: Water  
Associated Lab Samples: 2619807001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	06/20/19 03:46	
Fluoride	mg/L	ND	0.30	0.029	06/20/19 03:46	
Sulfate	mg/L	ND	1.0	0.017	06/20/19 03:46	

LABORATORY CONTROL SAMPLE: 137791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.9	99	90-110	
Fluoride	mg/L	10	9.7	97	90-110	
Sulfate	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 137792 137793

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		2619806001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Chloride	mg/L	3.0	10	10	12.2	12.3	91	93	90-110	1	15		
Fluoride	mg/L	1.2	10	10	10.2	10.3	90	91	90-110	1	15		
Sulfate	mg/L	243	10	10	202	202	-408	-409	90-110	0	15	E,M1	
Sulfate	mg/L	243	10	10	202	202	-408	-409	90-110	0	15	E,M1	

MATRIX SPIKE SAMPLE: 137794

Parameter	Units	2619806002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	32.9	10	39.1	62	90-110	M1
Fluoride	mg/L	0.97	10	10.3	93	90-110	
Sulfate	mg/L	219	10	184	-348	90-110	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Hammond

Pace Project No.: 2619807

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond

Pace Project No.: 2619807

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
2619807001	EB-01	EPA 3005A	30489	EPA 6020B	30498
2619807001	EB-01	SM 2540C	30523		
2619807001	EB-01	EPA 300.0	30603		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Invoice Information:</b>	
Company: Georgia Power - Coal Combustion Residuals	Report To: Jody Abraham, Lauren Petty	Report To: Jody Abraham, Lauren Petty	Attention: sctinvoic@southernco.com	Company Name:	
Address: 2480 Manser Road Atlanta, GA 30339	Copy To: Geosyntec	Copy To: Geosyntec	Address:		
Email: j.abraham@southernco.com	Purchase Order #: SCS10382775	Purchase Order #: SCS10382775	Place Quote:		
Phone: (404)506-7239	Project Name: Plant Hammond Resample	Project Name: Plant Hammond Resample	Place Project Manager: batsy.mcdamie@pacelabs.com		
Requested Due Date: Standard	Project #: GWOSS1	Project #: GWOSS1	Place Profile #: 327 (AP) or 328 (Huff)		

Page: | Of |

ITEM #	MATRIX	CODE	COLLECTED		# OF CONTAINERS	PRESERVATIVES	ANALYSIS TEST (Y/N)	ANALYSIS																														
			START DATE	END DATE				Barium	Boron	Calcium	Chloride	Fluoride	Sulfate	TDS	Residual Chlorine (Y/N)	Residual Chlorine (Y/N)	Residual Chlorine (Y/N)																					
1	Drinking Water	DW	6/17 9:30	6/17 9:30	2	Unpreserved	Y	X	X	X	X	X	X	X																								

AM 6/17/19

WO#: 2619807

2619807

REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Dalton Anderson (Geo)	6/17/19	18:00	Melba Mufson (Geosyntec)	6/17/19	18:00	TEMP in C
Melba Mufson (Geo)	6/18/19	08:30	Yoda Rahman	6/18/19	08:30	Ice Received on
			Yoda Rahman	6/18/19	12:00	Sealed Cooker (Y/N)
						Custody (Y/N)
						Received on
						Temp in C

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Dalton Anderson  
 SIGNATURE of SAMPLER: *Dalton Anderson*  
 DATE Signed: 6/17/19

**Sample Condition Upon Receipt**

Face Analytical

Client Name: GIA Power

Project # \_\_\_\_\_

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_  
Tracking #: \_\_\_\_\_

**WO#: 2619807**

PM: BM Due Date: 06/20/19  
CLIENT: GAPower-CCR

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used 83 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temperature 0.7 Biological Tissue is Frozen: Yes No  
Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/18/19 MR

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

June 20, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

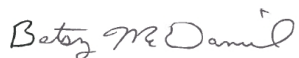
RE: Project: Plant Hammond Huffaker  
Pace Project No.: 2619847

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond Huffaker

Pace Project No.: 2619847

---

### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Hammond Huffaker

Pace Project No.: 2619847

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2619847001	GWC-20	Water	06/18/19 14:05	06/19/19 09:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Hammond Huffaker

Pace Project No.: 2619847

---

<b>Lab ID</b>	<b>Sample ID</b>	<b>Method</b>	<b>Analysts</b>	<b>Analytes Reported</b>
2619847001	GWC-20	EPA 300.0	MWB	1

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Hammond Huffaker

Pace Project No.: 2619847

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: GWC-20</b>									
<b>Lab ID: 2619847001</b>									
Collected: 06/18/19 14:05									
Received: 06/19/19 09:50									
Matrix: Water									
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>38.7</b>	mg/L	5.0	0.085	5		06/20/19 11:19	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond Huffaker  
Pace Project No.: 2619847

QC Batch: 30603 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 2619847001

METHOD BLANK: 137790 Matrix: Water  
Associated Lab Samples: 2619847001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	0.017	06/20/19 03:46	

LABORATORY CONTROL SAMPLE: 137791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 137792 137793

Parameter	Units	2619806001		2619806002		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Sulfate	mg/L	243	10	10	202	202	-408	-409	90-110	0	15	E,M1	
Sulfate	mg/L	243	10	10	202	202	-408	-409	90-110	0	15	E,M1	

MATRIX SPIKE SAMPLE: 137794

Parameter	Units	2619806002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	219	10	184	-348	90-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Hammond Huffaker

Pace Project No.: 2619847

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond Huffaker

Pace Project No.: 2619847

---

<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
2619847001	GWC-20	EPA 300.0	30603		

---

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>	
Company: Georgia Power - Coal Combustion Residuals	Report To: Jojo Abraham, Lauren Petty	Attention: sctsinvoices@southernco.com	Company Name:
Address: 2480 Maner Road Atlanta, GA 30339	Copy To: Geosyntec	Address:	Address:
Email: jbrabam@southernco.com	Purchase Order #: SCS10382775	Pace Quote:	Pace Project Manager: betsy.mcdaniel@pacelabs.com.
Phone: (404)506-7239   Fax	Project Name: Plant Hammond Resample	Pace Profile #: 327 (AP) or 328 (Huff)	State / Location: GA
Requested Due Date: 2-day TAT	Project #: GWC-20	Regulatory Agency:	Regulatory Agency:

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on	Ice (Y/N)	Custody (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)	
			START	END															DATE
1	GWC-20	WIG	6/18/19 13:55	6/18/19 14:05	6/18/19	18:00	6/19/19	18:00	Melicia Anderson (Geosyntec)	6/19/19	08:59	20.0	Y	Y	Y	Y	Y	Y	
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

WO#: 2619847

<b>ADDITIONAL COMMENTS</b>		<b>RECEIVED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>RECEIVED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>SAFETY COMMENTS</b>													
		Dalton Anderson (Geo)		6/18/19		18:00		Melicia Anderson (Geosyntec)		6/19/19		18:00															
		Melicia Anderson (Geosyntec)		6/19/19		08:59		B. Pace		6/19/19		08:59															
								Mcdaniel		6/19/19		09:50															
<b>SAMPLER NAME AND SIGNATURE</b>														<b>TEMP in C</b>		<b>Received on</b>		<b>Ice (Y/N)</b>		<b>Custody (Y/N)</b>		<b>Sealed (Y/N)</b>		<b>Cooler (Y/N)</b>		<b>Samples Intact (Y/N)</b>	
Dalton Anderson														20.0		Y		Y		Y		Y		Y		Y	
<b>SIGNATURE OF SAMPLER:</b>														<b>DATE SIGNED:</b>													
Dalton Anderson														6/18/19													



## Sample Condition Upon Receipt

Face Analytical

Client Name: G.A. Power

Project # \_\_\_\_\_

WO#: 2619847

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Tracking #: \_\_\_\_\_

PM: BM

Due Date: 06/21/19

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

CLIENT: GAPower-CCR

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used 83

Type of Ice:  Wet  Blue  None

Samples on ice, cooling process has begun

Cooler Temperature 2.0

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 6/19/19 MR

Temp should be above freezing to 6°C

Comments: \_\_\_\_\_

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>48 hr. TAT.</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

June 21, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

RE: Project: Plant Hammond Huffaker  
Pace Project No.: 2619851

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond Huffaker

Pace Project No.: 2619851

---

### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Hammond Huffaker

Pace Project No.: 2619851

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2619851001	GWC-8	Water	06/18/19 13:46	06/19/19 09:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Hammond Huffaker

Pace Project No.: 2619851

---

<b>Lab ID</b>	<b>Sample ID</b>	<b>Method</b>	<b>Analysts</b>	<b>Analytes Reported</b>
2619851001	GWC-8	EPA 6020B	CSW	2

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Hammond Huffaker

Pace Project No.: 2619851

Sample: GWC-8		Lab ID: 2619851001		Collected: 06/18/19 13:46		Received: 06/19/19 09:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Barium	<b>0.17</b>	mg/L	0.010	0.00049	1	06/19/19 16:00	06/20/19 17:33	7440-39-3	
Calcium	<b>83.7</b>	mg/L	5.0	0.55	50	06/19/19 16:00	06/20/19 17:39	7440-70-2	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond Huffaker

Pace Project No.: 2619851

QC Batch:	30563	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020B MET
Associated Lab Samples:	2619851001		

METHOD BLANK: 137554 Matrix: Water

Associated Lab Samples: 2619851001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/L	ND	0.010	0.00049	06/20/19 15:52	
Calcium	mg/L	ND	0.10	0.011	06/20/19 15:52	

LABORATORY CONTROL SAMPLE: 137555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.1	0.10	100	80-120	
Calcium	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 137556 137557

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2619848002 Result	Spike Conc.	Spike Conc.	Result						
Barium	mg/L	0.051	0.1	0.1	0.15	0.15	101	103	75-125	1	20
Calcium	mg/L	76.5	1	1	78.8	76.5	235	2	75-125	3	20 M6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Hammond Huffaker

Pace Project No.: 2619851

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond Huffaker  
Pace Project No.: 2619851

---

<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
2619851001	GWC-8	EPA 3005A	30563	EPA 6020B	30597

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>	
Company: Georgia Power - Coal Combustion Residuals	Report To: Jolu Abraham, Lauren Pethy	Attention: scsinvoices@southernco.com	Company Name:
Address: 2480 Marner Road Atlanta, GA 30339	Copy To: Geosyntec	Address:	
Email: jbrabham@southernco.com	Purchase Order #: SCS10382775	Pace Quote:	
Phone: (404)506-7239	Project Name: Plant Hammond Resample	Pace Project Manager: betsy.mcdaniel@paceilabs.com	
Requested Due Date: <b>Q-4-Q-TAT</b>	Project #: <b>GW658</b>	Pace Profile #: 327 (AP) or 328 (Huff)	GA

#	ITEMS	MATRIX CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	PRESERVATIVES													Residual Chrome (Y/N)						
			START DATE TIME	END DATE TIME		DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Barium	Boron	Calcium	Chloride	Fluoride		Sulfate	TDS				
1			06/18	13:41	06/18	13:46	19	1																				
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

TEMP in C		Received on		Sealed		Custody		Cooler		Samples	
DATE Signed: 06/18/19		SIGNATURE OF SAMPLER: Grant Walter		DATE Signed: 06/18/19		SIGNATURE OF SAMPLER: <i>Grant Walter</i>		DATE Signed: 06/18/19		SIGNATURE OF SAMPLER: <i>Grant Walter</i>	

**WO#: 2619851**

2619851



Sample Condition Upon Receipt

Client Name: GIA Power Project # \_\_\_\_\_

WO#: **2619851**

PM: **BM** Due Date: **06/21/19**  
CLIENT: **GAPower-CCR**

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_  
Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used 83 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temperature 2.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/19/19 MR

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>48 hr. TAT.</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_ Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

June 24, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

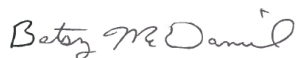
RE: Project: Plant Hammond Huffaker  
Pace Project No.: 2619925

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond Huffaker

Pace Project No.: 2619925

---

### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant Hammond Huffaker  
Pace Project No.: 2619925

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2619925001	GWC-6	Water	06/19/19 10:32	06/20/19 09:13

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Hammond Huffaker

Pace Project No.: 2619925

---

<b>Lab ID</b>	<b>Sample ID</b>	<b>Method</b>	<b>Analysts</b>	<b>Analytes Reported</b>
2619925001	GWC-6	EPA 300.0	RLC	1

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Hammond Huffaker

Pace Project No.: 2619925

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: GWC-6</b>									
<b>Lab ID: 2619925001</b>									
Collected: 06/19/19 10:32    Received: 06/20/19 09:13    Matrix: Water									
Analytical Method: EPA 300.0									
Sulfate	<b>108</b>	mg/L	10.0	0.17	10		06/24/19 13:19	14808-79-8	M1

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond Huffaker  
Pace Project No.: 2619925

QC Batch: 30672 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 2619925001

METHOD BLANK: 138079 Matrix: Water  
Associated Lab Samples: 2619925001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	0.017	06/21/19 20:59	

LABORATORY CONTROL SAMPLE: 138080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 138081 138082

Parameter	Units	2619925001		138082		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfate	mg/L	108	10	10	108	108	-2	-2	90-110	0	15 E,M1

MATRIX SPIKE SAMPLE: 138083

Parameter	Units	2619839001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	1290	20	1240	-267	90-110	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Hammond Huffaker

Pace Project No.: 2619925

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond Huffaker

Pace Project No.: 2619925

---

<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
2619925001	GWC-6	EPA 300.0	30672		

---

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> <b>Required Client Information:</b> Company: Georgia Power - Coal Combustion Residuals Address: 2480 Manor Road Atlanta, GA 30339 Email: jabraham@southernco.com Phone: (404)506-7239 Requested Due Date: 2-20-19		<b>Section B</b> <b>Required Project Information:</b> Report To: Joju Abraham, Lauren Petty Copy To: Geosyntec Purchase Order #: SCS10382775 Project Name: Plant Hammond Resample Project #: 210858		<b>Section C</b> <b>Invoice Information:</b> Attention: sscinvoic@southernco.com Company Name: Address: Pace Project Manager: betsy.mcdaniell@pacelabs.com Pace Profile #: 327 (AP) or 328 (Huff)	
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

ITEM #	MATRIX	MATRIX CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION		PRESERVATIVES											OTHER ANALYTES (Y/N)	Barium	Boron	Calcium	Chloride	Fluoride	Sulfate	TDS	Residual Chlorine (Y/N)	TEMP in C	Ice Received on	Custody Sealed	Cooler	Samples	Intact
			START	END		DATE	TIME	DATE	TIME	UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Method	Other																
1	Drinking Water	DW	6/19/19 10:27		G=GRAB	6/19/19	10:30															X			M								
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

NO#: 2619925

Dalton Anderson (Geo) 6/20/19 8:15 M. RAHMAN 6/20/19 0815  
 M. Rahman 6/20/19 0912  
 210797

PRINT Name of SAMPLER: Dalton Anderson  
 SIGNATURE of SAMPLER: *Dalton Anderson*  
 DATE Signed: 6/19/19



Sample Condition Upon Receipt

Client Name: GIA Power

Project # \_\_\_\_\_

WO#: **2619925**

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other  
Tracking #: \_\_\_\_\_

PM: **BM** Due Date: **06/24/19**  
CLIENT: **GAPower-CCR**

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used 83 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temperature 2.0

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 6/20/19 MK

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>48 hr. TAT.</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	_____	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

July 02, 2019

Joju Abraham  
Georgia Power - Coal Combustion Residuals  
2480 Maner Road  
Atlanta, GA 30339

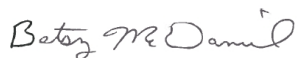
RE: Project: Plant Hammond GW6581B  
Pace Project No.: 2620281

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel  
betsy.mcdaniel@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Whitney Law, Geosyntec Consultants  
Noelia Muskus, Geosyntec Consultants  
Lauren Petty, Southern Company Services, Inc.  
Rebecca Thornton, Pace Analytical Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Hammond GW6581B

Pace Project No.: 2620281

---

### Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Hammond GW6581B

Pace Project No.: 2620281

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2620281001	GWC-8	Water	06/27/19 14:11	06/28/19 12:20
2620281002	GWC-20	Water	06/27/19 12:56	06/28/19 12:20

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Hammond GW6581B

Pace Project No.: 2620281

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2620281001	GWC-8	EPA 6020B	CSW, KLH	2
2620281002	GWC-20	EPA 300.0	MWB	1

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Hammond GW6581B

Pace Project No.: 2620281

Sample: GWC-8		Lab ID: 2620281001		Collected: 06/27/19 14:11		Received: 06/28/19 12:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Barium	<b>0.14</b>	mg/L	0.010	0.00049	1	07/01/19 14:35	07/01/19 18:27	7440-39-3	
Calcium	<b>75.9</b>	mg/L	1.0	0.11	10	07/01/19 14:35	07/02/19 14:27	7440-70-2	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## ANALYTICAL RESULTS

Project: Plant Hammond GW6581B

Pace Project No.: 2620281

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: GWC-20</b>									
<b>Lab ID: 2620281002</b>									
Collected: 06/27/19 12:56									
Received: 06/28/19 12:20									
Matrix: Water									
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>46.0</b>	mg/L	1.0	0.017	1		06/29/19 06:51	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond GW6581B  
Pace Project No.: 2620281

QC Batch: 31193 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020B MET  
Associated Lab Samples: 2620281001

METHOD BLANK: 140431 Matrix: Water  
Associated Lab Samples: 2620281001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/L	ND	0.010	0.00049	07/01/19 18:10	
Calcium	mg/L	ND	0.10	0.011	07/01/19 18:10	

LABORATORY CONTROL SAMPLE: 140432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.1	0.098	98	80-120	
Calcium	mg/L	1	0.96	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 140433 140434

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2620281001 Result	Spike Conc.	Spike Conc.	Result						
Barium	mg/L	0.14	0.1	0.1	0.25	114	120	75-125	2	20	
Calcium	mg/L	75.9	1	1	77.2	129	214	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Hammond GW6581B  
Pace Project No.: 2620281

QC Batch: 31128 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 2620281002

METHOD BLANK: 140175 Matrix: Water  
Associated Lab Samples: 2620281002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfate	mg/L	0.023J	1.0	0.017	06/28/19 23:35	

LABORATORY CONTROL SAMPLE: 140176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 140177 140178

Parameter	Units	2620136001		2620136002		2620136003		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result	MS Result	MSD Result				
Sulfate	mg/L	17.6	10	10	28.3	27.9	107	103	90-110	1	15

MATRIX SPIKE SAMPLE: 140179

Parameter	Units	2620136002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	17.5	10	27.4	99	90-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: Plant Hammond GW6581B

Pace Project No.: 2620281

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond GW6581B

Pace Project No.: 2620281

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2620281001	GWC-8	EPA 3005A	31193	EPA 6020B	31202
2620281002	GWC-20	EPA 300.0	31128		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Invoice Information:</b>	
Company: Georgia Power - Coal Combustion Residuals	Report To: Joji Abraham	Report To: Joji Abraham	Copy To:	Attention:	
Address: 2480 Maner Road		Copy To:		Company Name:	
Atlanta, GA 30339		Purchase Order #:		Address:	
Email: j_abraham@southernco.com		Project Name: Plant Hammond		Pace Cluote:	
Phone: (404) 506-7239	Fax:	Project #: <b>GWC-581B</b>		Pace Project Manager: betsy.mcdaniel@paceclabs.com	
Requested Due Date: <b>2 day TAI</b>				Pace Profile #: 327 (AP) or 328 (Huff)	

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	EPA 6020 Molybdenum and Calcium	EPA 300.0 Sulfate	Residual Chlorine (Y/N)	Received on	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)	
			START DATE TIME	END DATE TIME														
1	Drinking Water	DW	6/27/19 14:09	6/27/19 14:11	G	19	1	H2SO4	Unpreserved									
2	Water	WT	6/27/19 12:59	6/27/19 12:59	G	19	1	HNO3		X								
3	Waste Water	WW						HCl										
4	Product	P						NaOH										
5	Soil/Solid	SL						Na2S2O3										
6	Oil	OL						Methanol										
7	Wipe	WP						Other										
8	Air	AR																
9	Other	OT																
10	Tissue	TS																

ADDITIONAL COMMENTS	REQUIREMENT BY / AFFILIATION	DATE	TIME	ASPECTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
	Dalton Anderson (2620281)	6/27/19	11:07	Charles Parker	6/28/19	11:07	Y
					6/28/19	11:07	Y

DATE Signed: 6/27/19

PRINT Name of SAMPLER: Dalton Anderson

SIGNATURE of SAMPLER: *[Signature]*

SAMPLER NAME AND SIGNATURE: *[Signature]*

**WO#: 2620281**

Page 11 of 12





Sample Condition Upon Receipt

WO#: 2620281

Client Name: CA Power

PM: BM Due Date: 07/02/19 CLIENT: GAPower-CCR

Courier: [ ] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [x] Pace Other

Tracking #: \_\_\_\_\_

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: [x] yes [ ] no Seals intact: [x] yes [ ] no

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [x] None [ ] Other

Thermometer Used 082 Type of Ice: (Wet) Blue None [ ] Samples on ice, cooling process has begun

Cooler Temperature 4.1°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents 6/28/19 CA

Table with 16 rows and 2 columns. Row 1: Chain of Custody Present: [x] Yes [ ] No [ ] N/A 1. Row 2: Chain of Custody Filled Out: [x] Yes [ ] No [ ] N/A 2. Row 3: Chain of Custody Relinquished: [x] Yes [ ] No [ ] N/A 3. Row 4: Sampler Name & Signature on COC: [x] Yes [ ] No [ ] N/A 4. Row 5: Samples Arrived within Hold Time: [x] Yes [ ] No [ ] N/A 5. Row 6: Short Hold Time Analysis (<72hr): [x] Yes [ ] No [ ] N/A 6. Row 7: Rush Turn Around Time Requested: [x] Yes [ ] No [ ] N/A 7. 48hr TAT. Row 8: Sufficient Volume: [x] Yes [ ] No [ ] N/A 8. Row 9: Correct Containers Used: [x] Yes [ ] No [ ] N/A 9. -Pace Containers Used: [x] Yes [ ] No [ ] N/A. Row 10: Containers Intact: [x] Yes [ ] No [ ] N/A 10. Row 11: Filtered volume received for Dissolved tests [x] Yes [ ] No [ ] N/A 11. Row 12: Sample Labels match COC: [x] Yes [ ] No [ ] N/A 12. -Includes date/time/ID/Analysis Matrix: W. Row 13: All containers needing preservation have been checked. [x] Yes [ ] No [ ] N/A 13. All containers needing preservation are found to be in compliance with EPA recommendation. [x] Yes [ ] No [ ] N/A. exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) [x] Yes [ ] No. Row 14: Samples checked for dechlorination: [ ] Yes [ ] No [x] N/A 14. Row 15: Headspace in VOA Vials (>6mm): [ ] Yes [ ] No [x] N/A 15. Row 16: Trip Blank Present: [ ] Yes [ ] No [x] N/A 16. Trip Blank Custody Seals Present [ ] Yes [ ] No [x] N/A. Pace Trip Blank Lot # (if purchased): \_\_\_\_\_

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_
Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

# Data Validation Reports

## Memorandum

Date: June 3, 2019  
To: Whitney Law  
From: Kristoffer Henderson  
CC: J. Caprio  
Subject: **Stage 2A Data Validations - Level II Data Deliverables – Pace Analytical Services, LLC Project Numbers 2617140, 2617148, 2617207, 2617209, 2617267 and 2617269**

**SITE: Plant Hammond-Huffaker Road Landfill**

### INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of seventeen aqueous samples, one field duplicate sample, two equipment blanks and two field blanks, collected 5-9 April 2019, as part of the Plant Hammond-Huffaker Road Landfill on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Peachtree Corners, Georgia, for the following analytical tests:

- Metals by EPA Methods 3005A/6020B and 3010A/6020B
- Mercury by EPA Method 7470A
- Anions by EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method 2540C

### EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for meeting project objectives. The qualified data should be used within the limitations of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001);

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
2617140001	GWA-3
2617148001	FB-01
2617207001	FB-02
2617207002	EB-01
2617209001	GWA-1
2617209002	GWC-8
2617209003	GWC-7
2617209004	FD-02
2617209005	GWA-2
2617209006	GWC-9
2617209007	GWC-6

Laboratory ID	Client ID
2617209008	GWA-4
2617209009	GWA-11
2617209010	GWC-23
2617267001	GWC-5
2617267002	GWC-10
2617267003	GWC-20
2617267004	GWC-18
2617267005	GWC-19
2617267006	GWC-21
2617267007	GWC-22
2617269001	EB-02

The samples were received within 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC) forms:

- 261740 and 2617267: The year was missing from the start and stop times for the sample collections.
- 2617140, 2617148, 2617207, 2617209, 2617267 and 2617269: The relinquishing signatures, dates and times were missing for the final sample transfers on the COCs.
- 2617209: A collection time was not listed on the COC for the field duplicate. The field duplicate was logged in with the collection time of 00:00.

Laboratory reports 2617148 and 2617209 were revised on April 16, 2019 to correct the units reported for the metals data, per the client's request.

Laboratory report 2617267 was revised on April 18, 2019 to remove the mercury data, per the client's request.

## 1.0 METALS

The samples were analyzed by EPA methods 3005A/6020B and 3010A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

### **1.1 Overall Assessment**

The metals data reported in these packages are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for these sample sets is 100%.

### **1.2 Holding Time**

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

### **1.3 Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 468622, 469500 and 26237). Metals were not detected in the method blanks above the method detection limits (MDLs).

### **1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported using samples FB-01 and GWC-5. The recovery and relative percent difference (RPD) results were within the laboratory and SOP specified acceptance criteria, with the following exceptions.

2617267: The recoveries of calcium were low and outside the laboratory and SOP specified acceptance criteria in the MS/MSD pair using sample GWC-5. Since the calcium concentration in sample GWC-5 was greater than four times the spiked concentration and based on professional and technical judgment, no qualifications were applied to the data.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in these sample sets and qualifications were not applied to the data.

### 1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory and SOP specified acceptance criteria.

### 1.6 Equipment Blank

Two equipment blanks were collected with the sample sets, EB-01 and EB-02. Metals were not detected in the equipment blanks above the MDLs, with the following exceptions.

Nickel (0.0071 mg/L) and zinc (0.0021 mg/L) were detected at estimated concentrations greater than the MDLs and less than the reporting limits (RLs) and chromium (0.028 mg/L) was detected above the RL in EB-02. Since chromium was not detected in the associated samples, no qualifications were applied to the chromium data. However, the nickel and zinc concentrations in the associated samples less than five times the equipment blank concentration were U\* qualified as not detected at the reported concentrations.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier**	Reason Code***
GWA-3	Nickel	0.00075	J	0.00075	U*	BE
GWA-3	Zinc	0.0013	J	0.0013	U*	BE
GWA-1	Nickel	0.00034	J	0.00034	U*	BE
GWC-8	Nickel	0.00064	J	0.00064	U*	BE
GWC-8	Zinc	0.0012	J	0.0012	U*	BE
GWC-7	Nickel	0.030	NA	0.030	U*	BE
FD-02	Nickel	0.00068	J	0.00068	U*	BE
FD-02	Zinc	0.0013	J	0.0013	U*	BE
GWA-2	Zinc	0.0014	J	0.0014	U*	BE
GWC-9	Nickel	0.0021	J	0.0021	U*	BE
GWC-9	Zinc	0.0016	J	0.0016	U*	BE
GWC-6	Nickel	0.00032	J	0.00032	U*	BE
GWC-6	Zinc	0.0013	J	0.0013	U*	BE
GWA-4	Nickel	0.00089	J	0.00089	U*	BE
GWA-4	Zinc	0.0023	J	0.0023	U*	BE
GWA-11	Nickel	0.0023	J	0.0023	U*	BE
GWA-11	Zinc	0.0024	J	0.0024	U*	BE
GWC-23	Nickel	0.0011	J	0.0011	U*	BE
GWC-23	Zinc	0.0016	J	0.0016	U*	BE
GWC-5	Nickel	0.00098	J	0.00098	U*	BE

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier**	Reason Code***
GWC-18	Zinc	0.0037	J	0.0037	U*	BE
GWC-21	Nickel	0.0048	J	0.0048	U*	BE
GWC-21	Zinc	0.0041	J	0.0041	U*	BE
GWC-22	Chromium	0.0023	J	0.0023	U*	BE

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

NA-not applicable

\*\* Validation qualifiers are defined in Attachment 1 at the end of this report

\*\*\*Reason codes are defined in Attachment 2 at the end of this report

## 1.7 Field Blank

Two field blanks were collected with the sample sets, FB-01 and FB-02. Metals were not detected in the field blanks above the MDLs, with the following exceptions.

Barium (0.000078 mg/L) and calcium (0.024 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs and zinc (0.017 mg/L) was detected at a concentration greater than the RL in FB-01. Since barium and calcium were either not detected or detected at concentrations greater than five times the field blank concentration, no qualifications were applied to the barium and calcium data. However, the zinc concentrations in the associated samples less than five times the field blank concentration were U\* qualified as not detected at the reported concentrations.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
GWA-3	Zinc	0.0013	J	0.0013	U*	BF
GWC-8	Zinc	0.0012	J	0.0012	U*	BF
GWC-7	Zinc	0.051	NA	0.051	U*	BF
FD-02	Zinc	0.0013	J	0.0013	U*	BF
GWA-2	Zinc	0.0014	J	0.0014	U*	BF
GWC-9	Zinc	0.0016	J	0.0016	U*	BF
GWC-6	Zinc	0.0013	J	0.0013	U*	BF
GWA-4	Zinc	0.0023	J	0.0023	U*	BF
GWA-11	Zinc	0.0024	J	0.0024	U*	BF
GWC-23	Zinc	0.0016	J	0.0016	U*	BF
GWC-18	Zinc	0.0037	J	0.0037	U*	BF
GWC-21	Zinc	0.0041	J	0.0041	U*	BF

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

NA-not applicable

### **1.8 Field Duplicate**

One field duplicate, FD-02, was collected with the sample sets. Acceptable precision ( $RPD \leq 20\%$  or the difference  $< RL$ ) was demonstrated between the field duplicate and the original sample, GWC-8.

### **1.9 Sensitivity**

The samples were reported to the MDLs. Elevated nondetect results were not reported.

### **1.10 Electronic Data Deliverable (EDD) Review**

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. The laboratory flags C0, BC and M6 used in the level II reports were not included in the EDDs. In addition, there were EDDs that included project data for samples from different laboratory reports when the sample was used for laboratory batch QC (i.e., the sample in the other report was used for the MS/MSD analyses). No other discrepancies were identified between the level II reports and the EDDs.

## **2.0 MERCURY**

The samples were analyzed by EPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review



## **2.1 Overall Assessment**

The mercury data reported in these packages are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for these sample sets is 100%.

## **2.2 Holding Time**

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

## **2.3 Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 468895 and 26291). Mercury was not detected in the method blanks above the MDL.

## **2.4 Matrix Spike/Matrix Spike Duplicate**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two batch MS/MSD pairs were reported. Since these were batch QC, the results do not affect the samples in these sample sets and qualifications were not applied to the data.

## **2.5 Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory and SOP specified acceptance criteria.

## **2.6 Equipment Blank**

Two equipment blanks were collected with the sample sets, EB-01 and EB-02. Mercury was not detected in the equipment blanks above the MDL.

## **2.7 Field Blank**

Two field blanks were collected with the sample sets, FB-01 and FB-02. Mercury was not detected in the field blanks above the MDL.

## **2.8 Field Duplicate**

One field duplicate was collected, but was not analyzed for mercury.

## **2.9 Sensitivity**

The samples were reported to the MDLs. Elevated non-detect results were not reported.

## **2.10 Electronic Data Deliverables Review**

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. There were EDDs that included project data for samples from different laboratory reports when the sample was used for laboratory batch (i.e., the sample in the other report was used for the MS/MSD analyses). No other discrepancies were identified between the level II reports and the EDDs.

## **3.0 WET CHEMISTRY**

The samples were analyzed for anions (chloride, fluoride and sulfate) by EPA method 300.0 and TDS by Standard Method 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

## **3.1 Overall Assessment**

The wet chemistry data reported in these packages are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to

the total number of analytical results requested on samples submitted for these analyses, for these sample sets is 100%.

### 3.2 Holding Times

The holding times for the chloride, fluoride and sulfate analyses of a water sample are 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

### 3.3 Method Blank

Three method blanks were reported for the anions (batches 26064, 26135 and 26352). The anions were not detected in the method blanks above the MDLs, with the following exceptions.

2617148, 2617207 and 2617209: Chloride (0.064 mg/L) was detected at an estimated concentration greater than the MDL and less than the RL in the method blank in batch 26135. Therefore, the chloride concentrations in the associated samples greater than the MDL and less than five times the method blank concentration were U\* qualified as not detected at the reported concentrations.

2617267 and 2617269: Chloride (0.31 mg/L) was detected at a concentration greater than the RL in the method blank in batch 26352. Therefore, the chloride concentrations in the associated samples greater than the MDL and less than five times the method blank concentration were U\* qualified as not detected at the reported concentrations.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
FB-01	Chloride	0.11	J	0.11	U*	BL
FB-02	Chloride	0.25	J	0.25	U*	BL
EB-01	Chloride	0.22	J	0.22	U*	BL
EB-02	Chloride	0.38	NA	0.38	U*	BL

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

NA-not applicable

### 3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair using sample GWC-5 and two MSs using samples FB-02 and GWC-10 were reported for the anions. The recovery and RPD results were within the laboratory and SOP specified acceptance criteria, with the following exceptions.

The recoveries of sulfate were low and outside the laboratory and SOP specified acceptance criteria in the MS/MSD pair using sample GWC-5. Since the sulfate concentration in sample GWC-5 was

greater than four times the spiked concentration and based on professional and technical judgment, no qualifications were applied.

Two batch MSs and one batch MS/MSD pair were also reported for the anions. Since these were batch QC, the results do not affect the samples in these sample sets and qualifications were not applied to the data.

### **3.5 Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported for the anions and TDS. The recovery results were within the laboratory and SOP specified acceptance criteria.

### **3.6 Laboratory Duplicate**

Five sample set specific laboratory duplicates were reported for TDS, using samples HGWC-120, HGWC-124, HGWC-105, GWC-9 and GWC-20. The RPD results were within the laboratory and SOP specified acceptance criteria.

One batch laboratory duplicate was also reported for TDS. Since this was batch QC, the result does not affect the samples in sample sets and qualifications were not applied to the data.

### **3.7 Equipment Blank**

Two equipment blanks were collected with the sample sets, EB-01 and EB-02. The wet chemistry parameters were not detected in the equipment blanks above the MDLs, with the following exceptions.

TDS (12.0 mg/L), chloride (0.22 mg/L) and sulfate (0.38 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in EB-01. Since the chloride concentration in EB-01 was U qualified as not detected at the reported concentration due to the method blank contamination and TDS and sulfate were detected in the associated samples at concentrations greater than five times the equipment blank concentrations, no additional qualifications were applied to the data, based on professional and technical judgment.

### **3.8 Field Blank**

Two field blanks were collected with the sample sets, FB-01 and FB-02. The wet chemistry parameters were not detected in the field blanks above the MDLs, with the following exceptions.

Chloride (0.11 mg/L) and sulfate (0.069 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in FB-01. Since the chloride concentration in FB-01 was U qualified as not detected at the reported concentration due to the method blank contamination and

sulfate was detected in the associated samples at concentrations greater than five times the field blank concentration, no additional qualifications were applied to the data, based on professional and technical judgment.

TDS (14.0 mg/L), chloride (0.25 mg/L) and sulfate (0.13 mg/L) were detected at estimated concentrations greater than the MDLs and less than the RLs in FB-02. Since the chloride concentration in FB-02 was U qualified as not detected at the reported concentration due to the method blank contamination and TDS and sulfate were detected in the associated samples at concentrations greater than five times the field blank concentrations, no additional qualifications were applied to the data, based on professional and technical judgment.

### **3.9 Field Duplicate**

One field duplicate, FD-02, was collected with the sample sets. Acceptable precision ( $RPD \leq 20\%$  or the difference  $< RL$ ) was demonstrated between the field duplicate and the original sample, GWC-8.

### **3.10 Sensitivity**

The samples were reported to the MDLs. No elevated nondetect results were reported.

### **3.11 Electronic Data Deliverable Review**

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. The laboratory flags B and M1 used in the level II reports were not included in the EDDs. In addition, there were EDDs that included project data for samples from different laboratory reports when the sample was used for laboratory batch (i.e., the sample was used for the MS/MSD analyses). No other discrepancies were identified between the level II reports and the EDDs.

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\* \* \* \* \*

**ATTACHMENT 1**  
**DATA VALIDATION QUALIFIER DEFINITIONS**  
**AND INTERPRETATION KEY**  
**Assigned by Geosyntec's Data Validation Team per the SOP**

**DATA QUALIFIER DEFINITIONS**

- U\* This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.
  
- UJ The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
  
- J The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

**ATTACHMENT 2**  
**DATA VALIDATION REASON CODES**  
**Assigned by Geosyntec's Data Validation Team per the SOP**

<b>Reason Code</b>	<b>Explanation</b>
BL	Laboratory blank contamination. The result should be considered "not-detected."
BE	Equipment blank contamination. The result should be considered "not-detected."
BF	Field blank contamination. The result should be considered "not-detected."
L	LCS and LCSD recoveries outside acceptance limits, indeterminate bias
L-	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased low.
L+	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased high.
M-	MS and/or MSD recoveries outside of acceptance limits. The result may be biased low.

## Memorandum

Date: July 1, 2019  
To: Whitney Law  
From: Kristoffer Henderson  
CC: J. Caprio  
Subject: **Stage 2A Data Validations - Level II Data Deliverables – Pace Analytical Services, LLC Project Numbers 2619807, 2619847, 2619851 and 2619925**

### **SITE: Plant Hammond-Huffaker Road Landfill**

### **INTRODUCTION**

This report summarizes the findings of the Stage 2A data validation of three aqueous samples and one equipment blank, collected 17-19 June 2019, as part of the Plant Hammond-Huffaker Road Landfill on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Peachtree Corners, Georgia, for the following analytical tests:

- Metals (Barium, Boron and Calcium) by EPA Methods 3005A/6020B
- Anions (Chloride, Fluoride and Sulfate) by EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method 2540C

### **EXECUTIVE SUMMARY**

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for meeting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001);

The following samples were analyzed and reported in the laboratory reports:



Laboratory ID	Client ID
2619807001	EB-01
2619847001	GWC-20

Laboratory ID	Client ID
2619851001	GWC-8
2619925001	GWC-6

The samples were received within 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC) forms:

- 2619807 and 2619851: The year was missing from the start and stop times for the sample collections.
- 2619807 and 2619847: The relinquishing signatures, dates and times were missing for the third sample transfers.
- 2619851: The relinquishing signatures, dates and times were missing for the fourth sample transfers.
- 2619925: The relinquishing signatures, dates and times were missing for the second sample transfers.

## 1.0 METALS

The samples were analyzed by EPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

### **1.1 Overall Assessment**

The metals data reported in these packages are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for these sample sets is 100%.

### **1.2 Holding Time**

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

### **1.3 Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 30489 and 30563). Metals were not detected in the method blanks above the method detection limits (MDLs).

### **1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two batch MS/MSD pairs were reported. Since these were batch QC, the results do not affect the samples in these sample sets and qualifications were not applied to the data.

### **1.5 Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory and SOP specified acceptance criteria.

### **1.6 Equipment Blank**

One equipment blank was collected with the sample sets, EB-01. Metals were not detected in the equipment blank above the MDLs.

### **1.7 Field Blank**

A field blank was not collected with the sample set.

### **1.8 Field Duplicate**

A field duplicate was not collected with the sample set.

### **1.9 Sensitivity**

The samples were reported to the MDLs. Elevated nondetect results were not reported.

### **1.10 Electronic Data Deliverable (EDD) Review**

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. The EDDs included project data for samples from different laboratory reports when the sample was used for laboratory batch QC (i.e., the sample in the other report was used for the MS/MSD analyses). No other discrepancies were identified between the level II reports and the EDDs.

## **2.0 WET CHEMISTRY**

The samples were analyzed for anions (chloride, fluoride and sulfate) by EPA method 300.0 and TDS by Standard Method 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverables Review

### **2.1 Overall Assessment**

The wet chemistry data reported in these packages are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to

the total number of analytical results requested on samples submitted for these analyses, for these sample sets is 100%.

## **2.2 Holding Times**

The holding times for the chloride, fluoride and sulfate analyses of a water sample are 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

## **2.3 Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for the anions (batches 30603 and 30672). The anions were not detected in the method blanks above the MDLs.

## **2.4 Matrix Spike/Matrix Spike Duplicate**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported for the anions, using sample GWC-6. The RPD result was within the laboratory and SOP specified acceptance criteria. However, the recoveries of sulfate were low and outside the laboratory and SOP specified acceptance criteria. Since the sulfate concentration in sample GWC-6 was greater than four times the spiked concentration and based on professional and technical judgment, no qualifications were applied.

Two batch MSs and one batch MS/MSD pair were also reported for the anions. Since these were batch QC, the results do not affect the samples in these sample sets and qualifications were not applied to the data.

## **2.5 Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported for the anions and TDS. The recovery results were within the laboratory and SOP specified acceptance criteria.

## **2.6 Laboratory Duplicate**

Two batch laboratory duplicates were reported for TDS. Since these were batch QC, the results do not affect the samples in the sample sets and qualifications were not applied to the data.

## **2.7 Equipment Blank**

One equipment blank was collected with the sample sets, EB-01. Sulfate was not detected in the equipment blank above the MDL. However, TDS (14.0 mg/L), chloride (0.93 mg/L) and fluoride (0.38 mg/L) were detected at concentrations the RLs. Since TDS, chloride and sulfate were not reported in the associated samples, no qualifications were applied to the data.

## **2.8 Field Blank**

A field blank was not collected with the sample sets.

## **2.9 Field Duplicate**

A field duplicate was not collected with the sample sets.

## **2.10 Sensitivity**

The samples were reported to the MDLs for the anions and to the RL for TDS. No elevated nondetect results were reported.

## **2.11 Electronic Data Deliverable Review**

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. The laboratory flag M1 used in the level II reports were not included in the EDDs. In addition, the EDDs included project data for samples from different laboratory reports when the sample was used for laboratory batch (i.e., the sample was used for the MS/MSD analyses). No other discrepancies were identified between the level II reports and the EDDs.

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\* \* \* \* \*

**ATTACHMENT 1**  
**DATA VALIDATION QUALIFIER DEFINITIONS**  
**AND INTERPRETATION KEY**  
**Assigned by Geosyntec's Data Validation Team per the SOP**

**DATA QUALIFIER DEFINITIONS**

- U\* This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.
  
- UJ The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
  
- J The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

**ATTACHMENT 2**  
**DATA VALIDATION REASON CODES**  
**Assigned by Geosyntec's Data Validation Team per the SOP**

<b>Reason Code</b>	<b>Explanation</b>
BL	Laboratory blank contamination. The result should be considered "not-detected."
BE	Equipment blank contamination. The result should be considered "not-detected."
BF	Field blank contamination. The result should be considered "not-detected."
L	LCS and LCSD recoveries outside acceptance limits, indeterminate bias
L-	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased low.
L+	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased high.
M-	MS and/or MSD recoveries outside of acceptance limits. The result may be biased low.

## **Memorandum**

Date: July 10, 2019  
To: Whitney Law  
From: Kristoffer Henderson  
CC: J. Caprio  
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 2620281**

### **SITE: Plant Hammond-Huffaker Road Landfill**

#### **INTRODUCTION**

This report summarizes the findings of the Stage 2A data validation of two aqueous samples, collected 27 June 2019, as part of the Plant Hammond-Huffaker Road Landfill on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Peachtree Corners, Georgia, for the following analytical tests:

- Metals (Barium and Calcium) by USEPA Methods 3005A/6020B
- Sulfate by USEPA Method 300.0

#### **EXECUTIVE SUMMARY**

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for meeting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory report, professional and technical judgment and the following documents:

- USEPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001);

The following samples were analyzed and reported in the laboratory report:



Laboratory ID	Client ID
2620281001	GWC-8

Laboratory ID	Client ID
2620281002	GWC-20

The samples were received within 0-6°C. No sample preservation issues were noted by the laboratory.

The following issue was noted with the chain of custody (COC) form:

- The relinquishing signature, date and time were missing for the second sample transfer.

## 1.0 METALS

The sample was analyzed for barium and calcium by USEPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

### 1.1 Overall Assessment

The metals data reported in these packages are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this sample set is 100%.

## **1.2 Holding Time**

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

## **1.3 Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 31193). Metals were not detected in the method blank above the method detection limits (MDLs).

## **1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample GWC-8. The recovery and relative percent difference (RPD) results were within the laboratory and SOP specified acceptance criteria, with the following exceptions.

The recoveries of calcium in the MS/MSD pair were high and outside the laboratory and SOP specified acceptance criteria. Since the calcium concentration in sample GWC-8 was greater than four times the spiked concentration, no qualifications were applied to the data, based on professional and technical judgment.

## **1.5 Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory and SOP specified acceptance criteria.

## **1.6 Equipment Blank**

An equipment blank was not collected with the sample set.

## **1.7 Field Blank**

A field blank was not collected with the sample set.

## **1.8 Field Duplicate**

A field duplicate was not collected with the sample set.

## 1.9 Sensitivity

The samples were reported to the MDLs. Elevated nondetect results were not reported.

## 1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The EDD included project data for samples from different laboratory reports when the sample was used for laboratory batch QC (i.e., the sample in the other report was used for the MS/MSD analyses). No other discrepancies were identified between the level II report and the EDD.

## 2.0 SULFATE

The sample was analyzed for sulfate by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverables Review

## 2.1 Overall Assessment

The sulfate data reported in these packages are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this sample set is 100%.

## **2.2 Holding Times**

The holding time for the sulfate analysis of a water sample is 28 days from sample collection to analysis. The holding time was met for the sample analysis.

## **2.3 Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 31128). Sulfate was detected in the method blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since sulfate was detected in the associated sample at a concentration greater than five times the method blank concentration, no qualifications were applied to the data.

## **2.4 Matrix Spike/Matrix Spike Duplicate**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS and one batch MS/MSD pair were reported. Since these were batch QC, the results do not affect the sample in this sample set and qualifications were not applied to the data.

## **2.5 Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory and SOP specified acceptance criteria.

## **2.6 Laboratory Duplicate**

Laboratory duplicates were not reported with the data.

## **2.7 Equipment Blank**

An equipment blank was not collected with the sample set.

## **2.8 Field Blank**

A field blank was not collected with the sample set.

## **2.9 Field Duplicate**

A field duplicate was not collected with the sample set.

## **2.10 Sensitivity**

The sample was reported to the MDL. No elevated nondetect results were reported.

## **2.11 Electronic Data Deliverable Review**

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The EDD included project data for samples from different laboratory reports when the sample was used for laboratory batch (i.e., the sample was used for the MS/MSD analyses). No other discrepancies were identified between the level II report and the EDD.

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**ATTACHMENT 1**  
**DATA VALIDATION QUALIFIER DEFINITIONS**  
**AND INTERPRETATION KEY**  
**Assigned by Geosyntec's Data Validation Team per the SOP**

**DATA QUALIFIER DEFINITIONS**

- U\* This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.
  
- UJ The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
  
- J The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

**ATTACHMENT 2**  
**DATA VALIDATION REASON CODES**  
**Assigned by Geosyntec's Data Validation Team per the SOP**

<b>Reason Code</b>	<b>Explanation</b>
BL	Laboratory blank contamination. The result should be considered "not-detected."
BE	Equipment blank contamination. The result should be considered "not-detected."
BF	Field blank contamination. The result should be considered "not-detected."
L	LCS and LCSD recoveries outside acceptance limits, indeterminate bias
L-	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased low.
L+	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased high.
M-	MS and/or MSD recoveries outside of acceptance limits. The result may be biased low.

**APPENDIX B2**  
**Field Data Sheets**



Product Name: Low-Flow System

Date: 2019-04-08 10:48:26

Project Information:

Operator Name Grant Walter  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 30 ft

Pump placement from TOC ft

Well Information:

Well ID GWA-1  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 11.73 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2239027 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 5.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:36:07	300.07	15.81	6.99	152.88	0.55	12.17	6.25	93.22
Last 5	10:41:07	600.02	15.92	6.97	151.55	0.46	12.18	6.89	76.14
Last 5	10:46:07	900.02	15.89	6.86	150.12	0.81	12.20	6.75	54.99
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.12	-0.01	-1.33			0.64	-17.08
Variance 2			-0.04	-0.11	-1.43			-0.13	-21.15

Notes

Four bottles: Two 1-L plastic bottles with HNO3 for radium (EPA 9315/9320); one 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth = 40.03

Grab Samples

GWA-1  
Grab

Product Name: Low-Flow System

Date: 2019-04-08 11:17:41

Project Information:

Operator Name Dalton Anderson  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 497259  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWA-2  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 6.13 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:40:49	300.09	15.80	6.76	419.68	2.29	6.49	0.13	26.62
Last 5	10:45:49	600.01	15.79	6.78	419.80	1.23	6.49	0.13	23.57
Last 5	10:50:49	899.99	15.81	6.79	419.87	1.60	6.46	0.08	21.67
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.02	0.02	0.13			-0.00	-3.04
Variance 2			0.03	0.01	0.06			-0.05	-1.90

Notes

Two Bottles: one 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth =26.1

Grab Samples

GWA-2  
Grab

Product Name: Low-Flow System

Date: 2019-04-05 15:17:20

Project Information:

Operator Name Grant Walter  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 13 ft

Pump placement from TOC ft

Well Information:

Well ID GWA-3  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 4.67 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1480245 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:05:18	300.04	16.61	6.85	773.76	2.81	5.15	0.21	117.72
Last 5	15:10:18	600.02	16.93	6.80	767.99	2.49	5.14	0.22	104.78
Last 5	15:15:18	900.02	17.26	6.77	757.81	2.58	5.14	0.29	100.56
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.32	-0.05	-5.78			0.02	-12.94
Variance 2			0.33	-0.04	-10.17			0.07	-4.22

Notes

Four bottles: Two 1-L plastic bottles with HNO3 for radium (EPA 9315/9320); one 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth = 21.64

Grab Samples

GWA-3  
Grab

Product Name: Low-Flow System

Date: 2019-04-08 13:04:31

Project Information:

Operator Name Aaron Reeder  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 38.0 ft

Pump placement from TOC 37.0 ft

Well Information:

Well ID GWA-4  
Well diameter 2 in  
Well Total Depth 47.00 ft  
Screen Length 10 ft  
Depth to Water 9.83 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2596101 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:29:26	2999.95	15.93	6.88	750.66	0.75	10.16	0.96	72.70
Last 5	12:34:26	3299.95	15.93	6.86	745.99	0.71	10.17	0.91	72.90
Last 5	12:39:26	3599.94	15.98	6.84	745.45	1.01	10.16	0.81	73.00
Last 5	12:44:26	3899.93	16.09	6.83	747.52	1.12	10.18	0.85	72.69
Last 5	12:49:26	4199.92	16.11	6.82	737.39	1.61	10.18	0.80	72.89
Variance 0			0.05	-0.03	-0.54			-0.10	0.10
Variance 1			0.11	-0.00	2.07			0.04	-0.31
Variance 2			0.01	-0.01	-10.13			-0.05	0.20

Notes

For AP wells:

Four bottles: Two 1-L plastic bottles with HNO3 for radium (EPA 9315/9320); one 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth = 21.8

Grab Samples

GWA-4  
Grab

Product Name: Low-Flow System

Date: 2019-04-09 09:28:53

Project Information:

Operator Name Grant Walter  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 13 ft

Pump placement from TOC ft

Well Information:

Well ID GWC-5  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 4.46 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.1480245 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:07:16	600.02	15.69	6.69	641.36	3.75	4.55	2.20	-6.49
Last 5	09:12:16	900.02	15.78	6.70	636.77	2.43	4.56	2.28	-8.34
Last 5	09:17:16	1200.01	15.83	6.71	638.10	1.94	4.56	2.57	-9.13
Last 5	09:22:16	1500.01	15.94	6.70	633.73	1.70	4.56	1.65	-9.50
Last 5	09:27:16	1800.01	16.11	6.72	631.95	1.04	4.56	0.17	-8.90
Variance 0			0.06	0.00	1.33			0.29	-0.79
Variance 1			0.11	-0.01	-4.36			-0.92	-0.36
Variance 2			0.17	0.02	-1.78			-1.48	0.59

Notes

Two bottles: One 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth = 21.73

Grab Samples

GWC-5  
Grab

Product Name: Low-Flow System

Date: 2019-04-08 16:55:02

Project Information:

Operator Name Dalton Anderson  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 497259  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-6  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 15.11 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 26 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:42:26	5999.82	17.53	7.01	493.49	2.49	15.20	0.72	-0.77
Last 5	15:47:26	6299.81	17.53	7.01	493.77	3.28	15.21	0.65	-2.88
Last 5	15:52:25	6599.80	17.46	7.01	498.00	2.82	15.21	0.60	-4.35
Last 5	15:57:25	6899.79	17.49	7.01	509.97	4.00	15.20	0.52	-6.09
Last 5	16:02:25	7199.78	17.53	7.00	503.68	3.02	15.20	0.45	-7.49
Variance 0			-0.07	0.00	4.23			-0.05	-1.47
Variance 1			0.03	-0.00	11.97			-0.09	-1.74
Variance 2			0.04	-0.00	-6.29			-0.06	-1.40

Notes

Two Bottles: one 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth =43.05

Grab Samples

GWC-6  
Grab

Product Name: Low-Flow System

Date: 2019-04-08 17:44:03

Project Information:

Operator Name Grant Walter  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 23 ft

Pump placement from TOC ft

Well Information:

Well ID GWC-7  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 13.34 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1926587 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 21 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	17:21:46	9910.94	17.47	6.28	430.42	6.33	13.74	0.16	-7.17
Last 5	17:26:46	10210.95	17.44	6.29	442.83	8.21	13.74	0.15	-7.36
Last 5	17:31:46	10510.94	17.38	6.27	441.73	7.74	13.73	0.16	-5.78
Last 5	17:36:46	10810.98	17.58	6.28	443.19	6.47	13.74	0.15	-5.79
Last 5	17:41:46	11110.96	17.53	6.26	435.45	6.01	13.74	0.15	-4.35
Variance 0			-0.07	-0.02	-1.10			0.00	1.58
Variance 1			0.20	0.00	1.46			-0.00	-0.01
Variance 2			-0.05	-0.01	-7.74			-0.00	1.44

Notes

Two bottles: One 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth = 32.25

Grab Samples

GWC-7  
Grab

Product Name: Low-Flow System

Date: 2019-04-08 12:57:55

Project Information:

Operator Name Grant Walter  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 19 ft

Pump placement from TOC ft

Well Information:

Well ID GWA-8  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 10.02 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1748051 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 11 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:35:04	2400.00	16.60	6.88	738.20	8.69	12.05	0.86	17.99
Last 5	12:40:04	2700.00	16.65	6.88	732.64	6.83	12.02	0.83	16.17
Last 5	12:45:04	3000.00	16.73	6.89	715.80	6.82	12.01	0.79	13.09
Last 5	12:50:04	3300.00	16.74	6.89	704.60	6.32	12.00	0.72	11.29
Last 5	12:55:04	3600.00	16.87	6.91	695.79	4.98	12.00	0.71	8.92
Variance 0			0.08	0.01	-16.84			-0.04	-3.09
Variance 1			0.00	-0.01	-11.20			-0.07	-1.80
Variance 2			0.13	0.02	-8.81			-0.01	-2.37

Notes

Four bottles: Two 1-L plastic bottles with HNO3 for radium (EPA 9315/9320); one 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth = 27.60

Grab Samples

GWC-8  
Grab  
FD-2  
Grab at GWC-8



Product Name: Low-Flow System

Date: 2019-04-08 13:14:26

Project Information:

Operator Name Dalton Anderson  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 497259  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-9  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 13.03 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:51:39	300.02	17.31	6.69	334.35	2.16	13.30	0.44	-15.44
Last 5	12:56:39	600.01	17.40	6.70	330.31	1.75	13.30	0.35	-17.37
Last 5	13:01:39	900.00	17.57	6.72	329.19	1.65	13.31	0.32	-20.38
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.09	0.01	-4.04			-0.08	-1.93
Variance 2			0.17	0.02	-1.12			-0.03	-3.01

Notes

Two Bottles; one 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth =52.48

Grab Samples

GWC-9  
Grab

Product Name: Low-Flow System

Date: 2019-04-09 11:18:19

Project Information:

Operator Name Grant Walter  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 25 ft

Pump placement from TOC ft

Well Information:

Well ID GWC-10  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 12.63 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2015856 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:56:56	300.05	16.29	7.19	358.10	7.01	12.68	0.45	-53.33
Last 5	11:01:56	600.02	16.37	7.20	358.59	6.42	12.69	0.44	-53.25
Last 5	11:06:56	900.02	16.41	7.20	351.32	7.56	12.69	0.43	-57.72
Last 5	11:11:56	1200.02	16.55	7.22	349.02	5.75	12.70	0.45	-56.61
Last 5	11:16:56	1500.02	16.58	7.22	345.50	4.80	12.70	0.45	-59.05
Variance 0			0.05	-0.00	-7.28			-0.01	-4.47
Variance 1			0.13	0.02	-2.30			0.01	1.11
Variance 2			0.03	-0.00	-3.52			0.01	-2.44

Notes

Two bottles: One 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth = 34.48

Grab Samples

GWC-10  
Grab

Product Name: Low-Flow System

Date: 2019-04-08 16:18:38

Project Information:

Operator Name Aaron Reeder  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 32.45 ft

Pump placement from TOC 31.45 ft

Well Information:

Well ID GWA-11  
Well diameter 2 in  
Well Total Depth 36.45 ft  
Screen Length 10 ft  
Depth to Water 15.65 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2348381 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 22 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:51:00	5103.90	16.12	6.61	198.56	12.32	15.97	0.49	0.88
Last 5	15:56:00	5403.89	16.17	6.61	199.42	10.12	15.95	0.50	0.38
Last 5	16:01:00	5703.89	16.14	6.61	198.70	10.00	15.97	0.46	-0.23
Last 5	16:06:00	6003.88	16.21	6.61	200.12	5.87	15.97	0.46	-0.83
Last 5	16:11:00	6303.87	16.19	6.61	200.37	4.87	15.96	0.46	-1.10
Variance 0			-0.03	-0.00	-0.72			-0.04	-0.61
Variance 1			0.07	-0.00	1.42			-0.00	-0.60
Variance 2			-0.01	-0.00	0.24			0.01	-0.27

Notes

For AP wells:

Two bottles One 250-mil bottle with HNO3 for metals and one 500-mL plastic bottle for TDS and anions .Total depth = 36.45

Grab Samples

GWA-11  
Grab

Product Name: Low-Flow System

Date: 2019-04-09 10:32:37

Project Information:

Operator Name Dalton Anderson  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 497259  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-18  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 12.43 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:58:43	300.09	17.00	7.22	365.53	3.17	13.58	1.42	93.79
Last 5	10:03:42	600.01	16.93	7.36	365.45	2.78	13.63	1.38	90.36
Last 5	10:08:42	900.00	17.00	7.42	363.38	1.46	13.69	1.35	90.93
Last 5	10:13:43	1200.03	17.08	7.48	361.59	1.97	13.71	1.38	90.83
Last 5									
Variance 0			-0.06	0.14	-0.08			-0.03	-3.43
Variance 1			0.06	0.06	-2.07			-0.03	0.57
Variance 2			0.09	0.06	-1.80			0.02	-0.11

Notes

Two Bottles: one 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth =57.1

Grab Samples

Grab  
GWC-18

Product Name: Low-Flow System

Date: 2019-04-09 12:25:16

Project Information:

Operator Name Dalton Anderson  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 497259  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-19  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 18.49 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:48:23	300.06	17.00	7.34	400.99	5.05	18.59	1.23	22.01
Last 5	11:53:23	600.01	17.05	7.37	397.39	5.11	18.59	0.81	13.69
Last 5	11:58:23	900.00	17.17	7.37	394.93	3.09	18.60	0.69	8.74
Last 5	12:03:24	1200.99	17.26	7.38	392.15	3.75	18.60	0.52	8.88
Last 5	12:08:24	1500.99	17.36	7.40	385.37	4.10	18.59	0.30	11.52
Variance 0			0.12	0.00	-2.45			-0.12	-4.95
Variance 1			0.09	0.00	-2.78			-0.17	0.14
Variance 2			0.10	0.03	-6.78			-0.22	2.64

Notes

Two Bottles: one 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth =57.11

Grab Samples

GWC-19  
Grab

Product Name: Low-Flow System

Date: 2019-04-09 14:08:31

Project Information:

Operator Name Grant Walter  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 588863  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 26 ft

Pump placement from TOC ft

Well Information:

Well ID GWC-20  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 2.99 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.206049 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:46:53	3600.00	17.08	7.26	388.30	5.43	3.84	0.44	-85.71
Last 5	13:51:53	3899.99	16.91	7.26	386.90	4.87	3.84	0.51	-85.48
Last 5	13:56:53	4199.99	16.93	7.25	385.53	6.13	3.85	0.57	-84.50
Last 5	14:01:53	4499.99	17.23	7.26	381.85	5.19	3.85	0.58	-82.89
Last 5	14:06:53	4799.99	16.87	7.26	376.90	4.70	3.85	0.59	-81.36
Variance 0			0.02	-0.01	-1.37			0.06	0.98
Variance 1			0.30	0.01	-3.68			0.01	1.60
Variance 2			-0.36	0.00	-4.94			0.01	1.53

Notes

Two bottles: One 500-mL plastic bottle for TDS (EPA 2540C), Cl, F, SO4 (EPA 300.0); and one 250-mL plastic bottle with HNO3 for App. III and IV metals (EPA 6020B/7470A). Total depth = 31.46

Grab Samples

GWC-20  
Grab

Product Name: Low-Flow System

Date: 2019-04-09 10:47:41

Project Information:

Operator Name Noelia Muskus  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364452  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-21  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 4.91 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 6.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:04:56	1200.02	13.90	6.56	294.05	0.25	5.17	0.82	3.86
Last 5	10:09:56	1500.02	14.18	6.51	283.88	0.25	5.10	0.80	3.05
Last 5	10:14:56	1800.02	14.26	6.49	282.88	0.33	5.10	0.97	2.04
Last 5	10:19:56	2100.02	14.40	6.47	276.91	0.41	5.10	0.90	1.32
Last 5	10:24:56	2400.02	14.41	6.46	273.50	0.39	5.10	0.95	2.06
Variance 0			0.09	-0.02	-0.99			0.17	-1.01
Variance 1			0.14	-0.02	-5.98			-0.06	-0.72
Variance 2			0.01	-0.00	-3.41			0.05	0.74

Notes

Two bottles: One 500-mL plastic bottle for TDS and anions and one 250-mL plastic bottle with HNO3 for metals. Total depth = 18.34 ft.

Grab Samples

GWC-21  
Grab

Product Name: Low-Flow System

Date: 2019-04-09 13:04:36

Project Information:

Operator Name Noelia Muskus  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364452  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-22  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 1.83 ft

Pumping Information:

Final Pumping Rate 140 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 8.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:28:46	2100.02	19.15	7.50	355.83	5.71	2.49	0.40	-61.18
Last 5	12:33:46	2400.02	19.32	7.49	355.43	5.17	2.49	0.35	-73.04
Last 5	12:38:46	2700.02	19.33	7.49	355.62	5.71	2.51	0.32	-80.82
Last 5	12:43:46	3000.02	18.83	7.50	354.83	5.43	2.53	0.34	-78.03
Last 5	12:48:47	3300.61	18.80	7.49	356.83	4.52	2.53	0.44	-85.52
Variance 0			0.01	-0.00	0.19			-0.03	-7.78
Variance 1			-0.50	0.02	-0.79			0.02	2.79
Variance 2			-0.04	-0.02	2.00			0.10	-7.50

Notes

Two bottles: One 500-mL plastic bottle for TDS and anions and one 250-mL plastic bottle with HNO3 for metals. Total depth = 42.16 ft.

Grab Samples

GWC-22  
Grab



Product Name: Low-Flow System

Date: 2019-04-08 16:01:27

Project Information:

Operator Name Noelia Muskus  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364452  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-23  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 7.96 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 16.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:13:54	8101.76	16.64	6.89	306.38	5.79	8.16	0.17	-48.76
Last 5	15:18:54	8401.76	16.61	6.88	306.07	5.33	8.16	0.16	-49.06
Last 5	15:23:54	8701.76	16.69	6.88	306.08	5.18	8.16	0.16	-49.12
Last 5	15:28:54	9001.76	16.65	6.87	306.23	5.29	8.16	0.15	-48.90
Last 5	15:33:54	9301.76	16.74	6.88	306.16	4.89	8.16	0.13	-49.13
Variance 0			0.09	-0.00	0.01			-0.00	-0.06
Variance 1			-0.04	-0.01	0.15			-0.01	0.22
Variance 2			0.09	0.00	-0.07			-0.01	-0.23

Notes

Two bottles: One 500-mL plastic bottle for TDS and anions and one 250-mL plastic bottle with HNO3 for App. III and D&O metals. Total depth = 50.02 ft.

Grab Samples

GWC-23  
Grab

Product Name: Low-Flow System

Date: 2019-06-19 10:42:48

Project Information:

Operator Name Dalton Anderson  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642533  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-6  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 16.59 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:06:04	900.00	19.29	7.01	505.59	11.50	16.68	0.18	-29.00
Last 5	10:11:04	1200.00	19.39	7.02	499.74	10.12	16.70	0.17	-33.55
Last 5	10:16:04	1499.99	19.46	7.02	498.51	7.36	16.71	0.19	-37.69
Last 5	10:21:04	1799.98	19.39	7.02	500.58	6.74	16.71	0.14	-41.95
Last 5	10:26:04	2099.98	19.48	7.03	499.79	4.03	16.72	0.15	-45.34
Variance 0			0.07	0.01	-1.23			0.03	-4.14
Variance 1			-0.07	-0.00	2.07			-0.05	-4.26
Variance 2			0.08	0.01	-0.79			0.00	-3.39

Notes

Parameters to be analyzed Sulfate. Total depth= 43.09 ft

Grab Samples

GWC-6  
Grab

Product Name: Low-Flow System

Date: 2019-06-18 13:40:32

Project Information:

Operator Name Grant Walter  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length 20 ft

Pump placement from TOC ft

Well Information:

Well ID GWC-8  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 12.75 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.1792685 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:18:58	1504.02	18.99	6.76	852.99	4.57	15.22	0.10	-22.05
Last 5	13:23:58	1804.02	19.30	6.78	830.47	3.60	15.23	0.11	-25.36
Last 5	13:28:58	2104.02	19.30	6.81	804.02	4.23	15.24	0.11	-28.78
Last 5	13:33:58	2404.02	19.06	6.84	774.04	3.97	15.26	0.11	-30.98
Last 5	13:38:58	2704.02	19.39	6.85	770.46	3.24	15.28	0.14	-32.55
Variance 0			0.00	0.03	-26.45			0.01	-3.43
Variance 1			-0.25	0.03	-29.97			-0.01	-2.20
Variance 2			0.34	0.01	-3.59			0.03	-1.56

Notes

Parameters to be analyzed: Barium, Calcium. Total depth =27.60

Grab Samples

GWC-8  
Grab

Product Name: Low-Flow System

Date: 2019-06-18 14:08:24

Project Information:

Operator Name Dalton Anderson  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642533  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-20  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 5.31 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:37:44	300.02	19.42	7.33	401.48	0.69	5.90	0.27	-39.46
Last 5	13:42:44	600.01	19.34	7.34	399.83	0.66	5.92	0.20	-55.56
Last 5	13:47:44	900.00	19.13	7.35	399.82	0.59	5.93	0.17	-75.37
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.08	0.01	-1.66			-0.08	-16.10
Variance 2			-0.22	0.00	-0.01			-0.03	-19.81

Notes

Parameters to be analyzed Sulfate. Total depth= 31.49 ft

Grab Samples

GWC-20  
Grab

Product Name: Low-Flow System

Date: 2019-06-27 14:12:45

Project Information:

Operator Name Dalton Anderson  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-8  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 12.39 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:45:06	900.01	19.38	7.00	608.18	6.80	14.65	1.47	-39.67
Last 5	13:50:06	1200.00	19.28	7.02	601.81	6.49	14.67	1.21	-42.72
Last 5	13:55:06	1500.00	19.17	7.03	598.87	3.22	14.67	0.99	-44.52
Last 5	14:00:06	1799.99	19.19	7.04	596.58	3.44	14.68	0.58	-46.31
Last 5	14:05:06	2099.99	19.19	7.05	592.25	3.90	14.70	0.39	-47.67
Variance 0			-0.11	0.01	-2.95			-0.23	-1.80
Variance 1			0.02	0.01	-2.29			-0.41	-1.79
Variance 2			-0.00	0.01	-4.33			-0.19	-1.36

Notes

Parameters to be analyzed barium and calcium. Total depth = 28.51 ft

Grab Samples

GWC-8  
Grab

Product Name: Low-Flow System

Date: 2019-06-27 13:00:11

Project Information:

Operator Name Dalton Anderson  
Company Name Geosyntec Consultants  
Project Name GP-Plant Hammond  
Site Name Plant Hammond  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter 0.17 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID GWC-20  
Well diameter 2 in  
Well Total Depth ft  
Screen Length 10 ft  
Depth to Water 5.19 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.2	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:32:50	3899.85	19.84	7.27	382.93	0.29	6.01	0.72	-52.68
Last 5	12:37:50	4199.85	19.85	7.28	383.54	0.20	6.02	0.55	-58.15
Last 5	12:42:50	4499.84	19.85	7.29	384.41	0.22	6.02	0.58	-63.08
Last 5	12:47:50	4799.84	19.84	7.30	385.73	0.33	6.03	0.52	-67.94
Last 5	12:52:51	5100.83	19.86	7.31	386.55	0.31	6.03	0.40	-72.68
Variance 0			0.01	0.01	0.87			0.03	-4.93
Variance 1			-0.01	0.01	1.32			-0.07	-4.86
Variance 2			0.01	0.01	0.81			-0.11	-4.74

Notes

Parameters to be analyzed Sulfate. Total depth = 31.47 ft

Grab Samples

GWC-20  
Grab

# APPENDIX C

## Statistical Analyses

Detection Monitoring Program Statistical  
Analysis Package  
Plant Hammond Huffaker Rd. Landfill  
April 2019 event



Appendix III Parameters  
Statistical Analysis Package  
(CCR and SW Program)

**Table C-1**  
 Detection Monitoring Prediction Limit Comparison - Appendix III Parameters  
 Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia

Parameter	Well ID	Upper PL	Lower PL	Apr 5-9, 2019	Jun 17-19, 2019	Jun 27, 2019
Purpose of Sampling Event:				Detection	Verification	Verification
Boron (mg/L)	GWC-10	0.048	-	0.035 J	--	--
Boron (mg/L)	GWC-18	0.15	-	0.12	--	--
Boron (mg/L)	GWC-19	0.21	-	0.17	--	--
Boron (mg/L)	GWC-20	0.05	-	0.011 J	--	--
Boron (mg/L)	GWC-21	0.14	-	0.014 J	--	--
Boron (mg/L)	GWC-22	0.085	-	0.063	--	--
Boron (mg/L)	GWC-23	0.15	-	0.022 J	--	--
Boron (mg/L)	GWC-5	0.073	-	0.048	--	--
Boron (mg/L)	GWC-6	0.043	-	0.036 J	--	--
Boron (mg/L)	GWC-7	0.073	-	0.049 J	--	--
Boron (mg/L)	GWC-8	0.028	-	0.055 J	--	--
Boron (mg/L)	GWC-9	0.05	-	0.015 J	--	--
Calcium (mg/L)	GWC-10	50.4	-	48.8	--	--
Calcium (mg/L)	GWC-18	44.2	-	41.4	--	--
Calcium (mg/L)	GWC-19	50.2	-	45.8	--	--
Calcium (mg/L)	GWC-20	61.1	-	57.1	--	--
Calcium (mg/L)	GWC-21	82.7	-	35.4	--	--
Calcium (mg/L)	GWC-22	52.7	-	47.3	--	--
Calcium (mg/L)	GWC-23	42.1	-	39.8	--	--
Calcium (mg/L)	GWC-5	92.1	-	73.9	--	--
Calcium (mg/L)	GWC-6	68.2	-	67	--	--
Calcium (mg/L)	GWC-7	73.5	-	56.1	--	--
Calcium (mg/L)	GWC-8	76.2	-	81.5	83.7	75.9
Calcium (mg/L)	GWC-9	38.4	-	36.3	--	--
Chloride (mg/L)	GWC-10	1.9	-	1.9	--	--
Chloride (mg/L)	GWC-18	1.8	-	1.6	--	--
Chloride (mg/L)	GWC-19	2.5	-	1.9	--	--
Chloride (mg/L)	GWC-20	2.1	-	1.8	--	--
Chloride (mg/L)	GWC-21	3.5	-	2.6	--	--
Chloride (mg/L)	GWC-22	2.0	-	1.7	--	--
Chloride (mg/L)	GWC-23	2.1	-	1.5	--	--
Chloride (mg/L)	GWC-5	4.0	-	3.3	--	--
Chloride (mg/L)	GWC-6	2.3	-	2.1	--	--
Chloride (mg/L)	GWC-7	2.3	-	1.9	--	--
Chloride (mg/L)	GWC-8	2.1	-	3.2 <sup>(3)</sup>	--	--
Chloride (mg/L)	GWC-9	1.7	-	1	--	--
Fluoride (mg/L)	GWC-10	0.18	-	0.067 J	--	--
Fluoride (mg/L)	GWC-18	0.21	-	0.1 J	--	--
Fluoride (mg/L)	GWC-19	0.27	-	0.1 J	--	--
Fluoride (mg/L)	GWC-20	0.17	-	0.056 J	--	--
Fluoride (mg/L)	GWC-21	0.26	-	0.063 J	--	--
Fluoride (mg/L)	GWC-22	0.13	-	0.063 J	--	--
Fluoride (mg/L)	GWC-23	0.15	-	0.057 J	--	--
Fluoride (mg/L)	GWC-5	0.33	-	0.061 J	--	--
Fluoride (mg/L)	GWC-6	0.33	-	ND	--	--
Fluoride (mg/L)	GWC-7	0.56	-	0.17 J	--	--
Fluoride (mg/L)	GWC-8	0.36	-	0.1 J	--	--
Fluoride (mg/L)	GWC-9	0.14	-	0.058 J	--	--

**Table C-1**  
 Detection Monitoring Prediction Limit Comparison - Appendix III Parameters  
 Plant Hammond, Huffaker Road Landfill, Floyd County, Georgia

Parameter	Well ID	Upper PL	Lower PL	Apr 5-9, 2019	Jun 17-19, 2019	Jun 27, 2019
<b>Purpose of Sampling Event:</b>				<b>Detection</b>	<b>Verification</b>	<b>Verification</b>
pH (s.u.)	GWC-10	7.7	7.0	7.2	--	--
pH (s.u.)	GWC-18	7.8	7.4	7.5	--	--
pH (s.u.)	GWC-19	7.7	7.2	7.4	--	--
pH (s.u.)	GWC-20	7.6	7.2	7.3	--	--
pH (s.u.)	GWC-21	7.7	5.8	6.5	--	--
pH (s.u.)	GWC-22	7.9	7.5	7.5	--	--
pH (s.u.)	GWC-23	7.5	6.9	6.9	--	--
pH (s.u.)	GWC-5	7.2	6.5	6.7	--	--
pH (s.u.)	GWC-6	7.4	6.7	7.0	--	--
pH (s.u.)	GWC-7	6.6	5.5	6.3	--	--
pH (s.u.)	GWC-8	7.6	7.2	6.9	6.9	7.1
pH (s.u.)	GWC-9	7.3	6.3	6.7	--	--
Sulfate (mg/L)	GWC-10	33.0	-	21.4	--	--
Sulfate (mg/L)	GWC-18	15.1	-	11.3	--	--
Sulfate (mg/L)	GWC-19	21.4	-	16.7	--	--
Sulfate (mg/L)	GWC-20	37.4	-	50.3	38.7	46.0
Sulfate (mg/L)	GWC-21	53	-	19.9	--	--
Sulfate (mg/L)	GWC-22	12.0	-	11	--	--
Sulfate (mg/L)	GWC-23	43	-	6.2	--	--
Sulfate (mg/L)	GWC-5	166	-	83.6	--	--
Sulfate (mg/L)	GWC-6	128	-	131	108	--
Sulfate (mg/L)	GWC-7	178	-	97.1	--	--
Sulfate (mg/L)	GWC-8	63.3	-	39.9	--	--
Sulfate (mg/L)	GWC-9	77.6	-	73.5	--	--
TDS (mg/L)	GWC-10	268	-	213	--	--
TDS (mg/L)	GWC-18	427	-	212	--	--
TDS (mg/L)	GWC-19	396	-	253	--	--
TDS (mg/L)	GWC-20	282	-	267	--	--
TDS (mg/L)	GWC-21	382	-	167	--	--
TDS (mg/L)	GWC-22	324	-	222	--	--
TDS (mg/L)	GWC-23	330	-	191	--	--
TDS (mg/L)	GWC-5	542	-	371	--	--
TDS (mg/L)	GWC-6	364	-	353	--	--
TDS (mg/L)	GWC-7	376	-	295	--	--
TDS (mg/L)	GWC-8	268	-	438 <sup>(3)</sup>	--	--
TDS (mg/L)	GWC-9	318	-	264	--	--

Notes:

-- = Not applicable

-- = Indicates the parameter was not analyzed as part of the verification event.

J = Indicates that analyte was estimated and detected between the laboratory Method Detection Limit (MDL) and Reporting Limit (RL).

mg/L = milligrams per liter

ND = Indicates the parameter was not detected above the laboratory MDL.

PL = Prediction Limit

s.u. = standard unit

TDS = Total Dissolved Solids

(1) Shaded values indicate an exceedance of the statistically derived PL.

(2) The pH value presented was recorded at the time of sample collection in the field. This is the only parameter i to both the upper and lower PL.

(3) Identified SSI addressed with an alternate source demonstration.

# Prediction Limit - Significant Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/15/2019, 5:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	GWC-8	2.129	n/a	4/8/2019	3.2	Yes	8	0	No	0.0006269	Param Intra 1 of 3 <span style="border: 1px solid red; padding: 2px;">Addressed with an ASD</span>
pH (s.u.)	GWC-23	7.509	6.939	4/8/2019	6.88	Yes	8	0	No	0.0003135	Param Intra 1 of 3 <span style="border: 1px solid red; padding: 2px;">With significant digits Obs = LPL = 6.9</span>
pH (s.u.)	GWC-8	7.59	7.205	6/27/2019	7.05	Yes	8	0	No	0.0003135	Param Intra 1 of 3
Sulfate (mg/L)	GWC-20	37.44	n/a	6/27/2019	46	Yes	8	0	No	0.0006269	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-8	267.8	n/a	4/8/2019	438	Yes	8	0	No	0.0006269	Param Intra 1 of 3 <span style="border: 1px solid red; padding: 2px;">Addressed with an ASD</span>

# Prediction Limit - All Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/15/2019, 5:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWC-10	0.04171	n/a	4/9/2019	0.035	No	8	0	No	0.0006269	Param Intra 1 of 3
Boron (mg/L)	GWC-18	0.1451	n/a	4/9/2019	0.12	No	8	0	No	0.0006269	Param Intra 1 of 3
Boron (mg/L)	GWC-19	0.2065	n/a	4/9/2019	0.17	No	8	0	No	0.0006269	Param Intra 1 of 3
Boron (mg/L)	GWC-20	0.05	n/a	4/9/2019	0.011	No	8	12.5	n/a	0.005912	NP Intra (normality) 1 of 3
Boron (mg/L)	GWC-21	0.1383	n/a	4/9/2019	0.014	No	8	0	No	0.0006269	Param Intra 1 of 3
Boron (mg/L)	GWC-22	0.08459	n/a	4/9/2019	0.063	No	8	0	No	0.0006269	Param Intra 1 of 3
Boron (mg/L)	GWC-23	0.151	n/a	4/8/2019	0.022	No	8	12.5	sqrt(x)	0.0006269	Param Intra 1 of 3
Boron (mg/L)	GWC-5	0.07287	n/a	4/9/2019	0.048	No	8	0	No	0.0006269	Param Intra 1 of 3
Boron (mg/L)	GWC-6	0.0426	n/a	4/8/2019	0.036	No	8	0	No	0.0006269	Param Intra 1 of 3
Boron (mg/L)	GWC-7	0.07255	n/a	4/8/2019	0.049	No	8	0	No	0.0006269	Param Intra 1 of 3
Boron (mg/L)	GWC-8	0.02841	n/a	4/8/2019	0.055	No	8	0	No	0.0006269	Param Intra 1 of 3
Boron (mg/L)	GWC-9	0.05	n/a	4/8/2019	0.015	No	8	12.5	n/a	0.005912	NP Intra (normality) 1 of 3
Calcium (mg/L)	GWC-10	50.37	n/a	4/9/2019	48.8	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-18	44.15	n/a	4/9/2019	41.4	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-19	50.19	n/a	4/9/2019	45.8	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-20	61.08	n/a	4/9/2019	57.1	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-21	82.74	n/a	4/9/2019	35.4	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-22	52.71	n/a	4/9/2019	47.3	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-23	42.07	n/a	4/8/2019	39.8	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-5	92.08	n/a	4/9/2019	73.9	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-6	68.16	n/a	4/8/2019	67	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-7	73.49	n/a	4/8/2019	56.1	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-8	76.22	n/a	6/27/2019	75.9	No	8	0	No	0.0006269	Param Intra 1 of 3
Calcium (mg/L)	GWC-9	38.4	n/a	4/8/2019	36.3	No	8	0	No	0.0006269	Param Intra 1 of 3
Chloride (mg/L)	GWC-10	1.911	n/a	4/9/2019	1.9	No	8	0	No	0.0006269	Param Intra 1 of 3
Chloride (mg/L)	GWC-18	1.774	n/a	4/9/2019	1.6	No	8	0	No	0.0006269	Param Intra 1 of 3
Chloride (mg/L)	GWC-19	2.477	n/a	4/9/2019	1.9	No	8	0	No	0.0006269	Param Intra 1 of 3
Chloride (mg/L)	GWC-20	2.115	n/a	4/9/2019	1.8	No	8	0	No	0.0006269	Param Intra 1 of 3
Chloride (mg/L)	GWC-21	3.478	n/a	4/9/2019	2.6	No	8	0	No	0.0006269	Param Intra 1 of 3
Chloride (mg/L)	GWC-22	1.956	n/a	4/9/2019	1.7	No	8	0	No	0.0006269	Param Intra 1 of 3
Chloride (mg/L)	GWC-23	2.062	n/a	4/8/2019	1.5	No	8	0	No	0.0006269	Param Intra 1 of 3
Chloride (mg/L)	GWC-5	4.009	n/a	4/9/2019	3.3	No	8	0	No	0.0006269	Param Intra 1 of 3
Chloride (mg/L)	GWC-6	2.297	n/a	4/8/2019	2.1	No	8	0	No	0.0006269	Param Intra 1 of 3
Chloride (mg/L)	GWC-7	2.302	n/a	4/8/2019	1.9	No	8	0	No	0.0006269	Param Intra 1 of 3
<b>Chloride (mg/L)</b>	<b>GWC-8</b>	<b>2.129</b>	<b>n/a</b>	<b>4/8/2019</b>	<b>3.2</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.0006269</b>	<b>Param Intra 1 of 3</b>
Chloride (mg/L)	GWC-9	1.741	n/a	4/8/2019	1	No	8	0	No	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-10	0.1828	n/a	4/9/2019	0.067	No	8	0	No	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-18	0.2117	n/a	4/9/2019	0.1	No	8	0	No	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-19	0.2743	n/a	4/9/2019	0.1	No	8	0	No	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-20	0.1713	n/a	4/9/2019	0.056	No	8	0	No	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-21	0.2567	n/a	4/9/2019	0.063	No	8	0	No	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-22	0.1258	n/a	4/9/2019	0.063	No	8	0	No	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-23	0.1516	n/a	4/8/2019	0.057	No	8	0	No	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-5	0.5204	n/a	4/9/2019	0.061	No	8	0	ln(x)	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-6	0.327	n/a	4/8/2019	0.15ND	No	8	0	No	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-7	0.5601	n/a	4/8/2019	0.17	No	8	0	No	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-8	0.3595	n/a	4/8/2019	0.1	No	8	0	ln(x)	0.0006269	Param Intra 1 of 3
Fluoride (mg/L)	GWC-9	0.138	n/a	4/8/2019	0.058	No	8	0	No	0.0006269	Param Intra 1 of 3
pH (s.u.)	GWC-10	7.705	6.985	4/9/2019	7.22	No	8	0	No	0.0003135	Param Intra 1 of 3
pH (s.u.)	GWC-18	7.768	7.419	4/9/2019	7.48	No	8	0	No	0.0003135	Param Intra 1 of 3

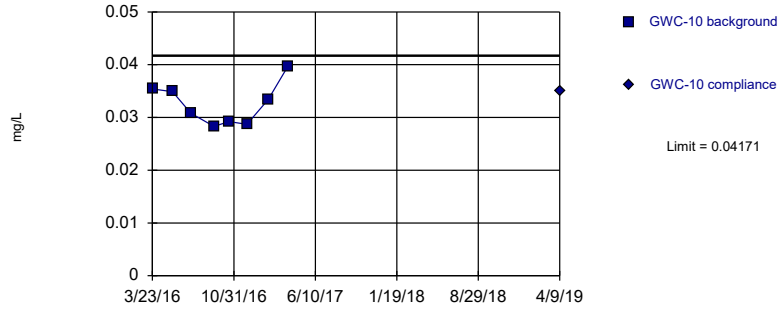
# Prediction Limit - All Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/15/2019, 5:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
pH (s.u.)	GWC-19	7.739	7.229	4/9/2019	7.4	No	8	0	No	0.0003135	Param Intra 1 of 3
pH (s.u.)	GWC-20	7.559	7.174	4/9/2019	7.26	No	8	0	No	0.0003135	Param Intra 1 of 3
pH (s.u.)	GWC-21	7.71	5.76	4/9/2019	6.46	No	8	0	No	0.0003135	Param Intra 1 of 3
pH (s.u.)	GWC-22	7.931	7.479	4/9/2019	7.49	No	8	0	No	0.0003135	Param Intra 1 of 3
<b>pH (s.u.)</b>	<b>GWC-23</b>	<b>7.509</b>	<b>6.939</b>	<b>4/8/2019</b>	<b>6.88</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.0003135</b>	<b>Param Intra 1 of 3</b>
pH (s.u.)	GWC-5	7.211	6.474	4/9/2019	6.72	No	8	0	No	0.0003135	Param Intra 1 of 3
pH (s.u.)	GWC-6	7.364	6.671	4/8/2019	7	No	8	0	No	0.0003135	Param Intra 1 of 3
pH (s.u.)	GWC-7	6.663	5.452	4/8/2019	6.26	No	8	0	No	0.0003135	Param Intra 1 of 3
<b>pH (s.u.)</b>	<b>GWC-8</b>	<b>7.59</b>	<b>7.205</b>	<b>6/27/2019</b>	<b>7.05</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.0003135</b>	<b>Param Intra 1 of 3</b>
pH (s.u.)	GWC-9	7.335	6.325	4/8/2019	6.72	No	8	0	No	0.0003135	Param Intra 1 of 3
Sulfate (mg/L)	GWC-10	33	n/a	4/9/2019	21.4	No	8	0	n/a	0.005912	NP Intra (normality) 1 of 3
Sulfate (mg/L)	GWC-18	15.08	n/a	4/9/2019	11.3	No	8	0	No	0.0006269	Param Intra 1 of 3
Sulfate (mg/L)	GWC-19	21.39	n/a	4/9/2019	16.7	No	8	0	No	0.0006269	Param Intra 1 of 3
<b>Sulfate (mg/L)</b>	<b>GWC-20</b>	<b>37.44</b>	<b>n/a</b>	<b>6/27/2019</b>	<b>46</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.0006269</b>	<b>Param Intra 1 of 3</b>
Sulfate (mg/L)	GWC-21	53	n/a	4/9/2019	19.9	No	8	0	No	0.0006269	Param Intra 1 of 3
Sulfate (mg/L)	GWC-22	11.96	n/a	4/9/2019	11	No	8	0	No	0.0006269	Param Intra 1 of 3
Sulfate (mg/L)	GWC-23	43	n/a	4/8/2019	6.2	No	8	0	n/a	0.005912	NP Intra (normality) 1 of 3
Sulfate (mg/L)	GWC-5	165.8	n/a	4/9/2019	83.6	No	8	0	No	0.0006269	Param Intra 1 of 3
Sulfate (mg/L)	GWC-6	127.6	n/a	6/19/2019	108	No	8	0	No	0.0006269	Param Intra 1 of 3
Sulfate (mg/L)	GWC-7	178	n/a	4/8/2019	97.1	No	8	0	No	0.0006269	Param Intra 1 of 3
Sulfate (mg/L)	GWC-8	63.3	n/a	4/8/2019	39.9	No	8	0	No	0.0006269	Param Intra 1 of 3
Sulfate (mg/L)	GWC-9	77.62	n/a	4/8/2019	73.5	No	8	0	No	0.0006269	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-10	267.9	n/a	4/9/2019	213	No	8	0	No	0.0006269	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-18	427	n/a	4/9/2019	212	No	8	0	n/a	0.005912	NP Intra (normality) 1 of 3
Total Dissolved Solids (mg/L)	GWC-19	396.3	n/a	4/9/2019	253	No	8	0	sqrt(x)	0.0006269	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-20	282.4	n/a	4/9/2019	267	No	8	0	No	0.0006269	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-21	382	n/a	4/9/2019	167	No	8	0	No	0.0006269	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-22	324	n/a	4/9/2019	222	No	8	0	n/a	0.005912	NP Intra (normality) 1 of 3
Total Dissolved Solids (mg/L)	GWC-23	329.5	n/a	4/8/2019	191	No	8	0	No	0.0006269	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-5	541.9	n/a	4/9/2019	371	No	8	0	No	0.0006269	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-6	363.9	n/a	4/8/2019	353	No	8	0	No	0.0006269	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	GWC-7	376.4	n/a	4/8/2019	295	No	8	0	No	0.0006269	Param Intra 1 of 3
<b>Total Dissolved Solids (mg/L)</b>	<b>GWC-8</b>	<b>267.8</b>	<b>n/a</b>	<b>4/8/2019</b>	<b>438</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>No</b>	<b>0.0006269</b>	<b>Param Intra 1 of 3</b>
Total Dissolved Solids (mg/L)	GWC-9	317.7	n/a	4/8/2019	264	No	8	0	No	0.0006269	Param Intra 1 of 3

Within Limit

Prediction Limit  
Intrawell Parametric



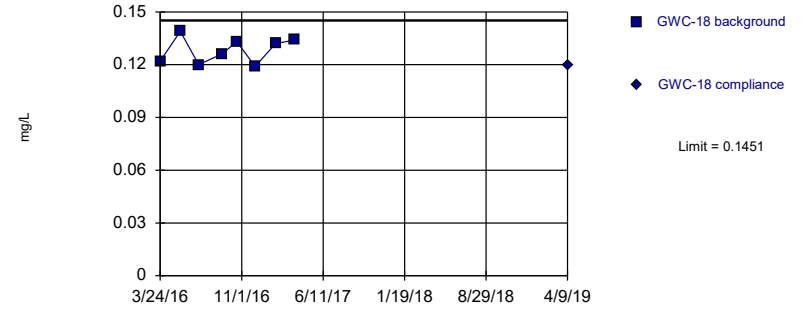
Background Data Summary: Mean=0.03254, Std. Dev.=0.003986, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9167, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



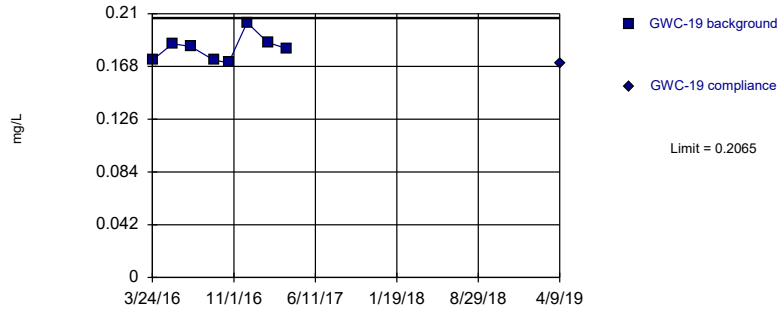
Background Data Summary: Mean=0.1281, Std. Dev.=0.007396, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



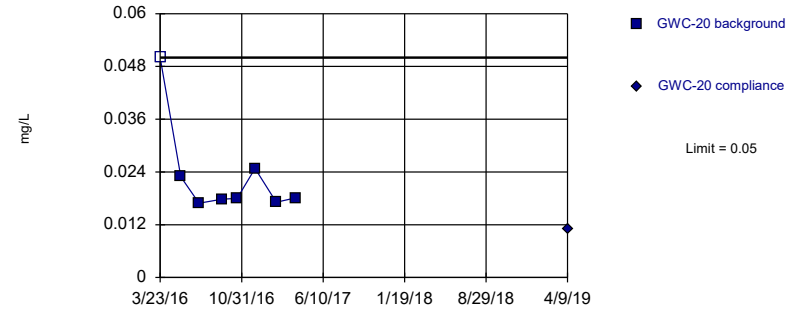
Background Data Summary: Mean=0.1824, Std. Dev.=0.01047, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8922, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



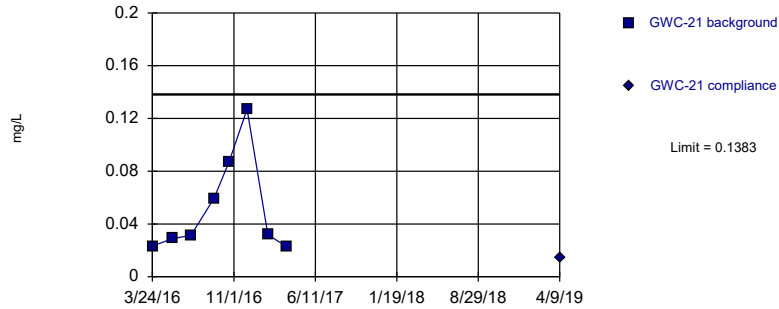
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. 12.5% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

Constituent: Boron Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



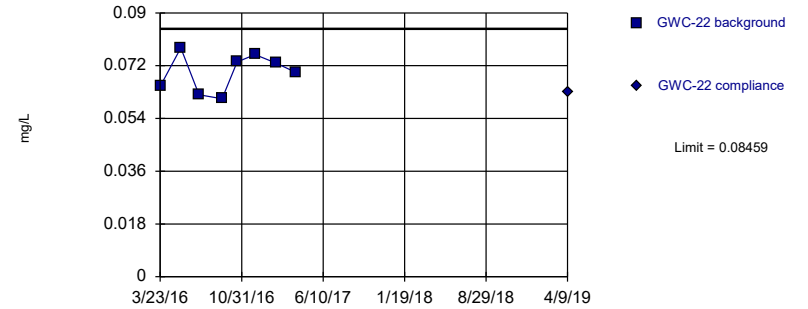
Background Data Summary: Mean=0.05138, Std. Dev.=0.03774, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7901, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



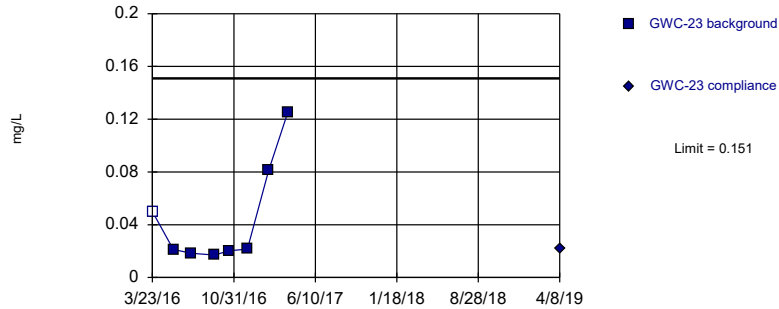
Background Data Summary: Mean=0.0697, Std. Dev.=0.006467, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9302, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



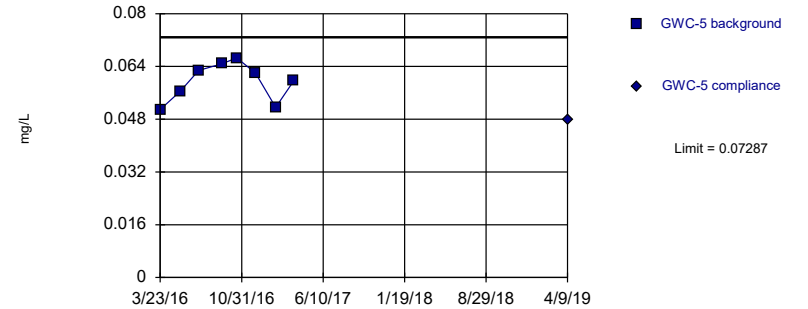
Background Data Summary (based on square root transformation): Mean=0.1953, Std. Dev.=0.08395, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7837, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



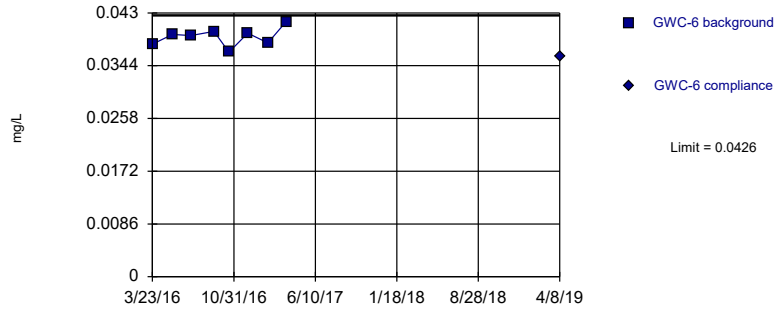
Background Data Summary: Mean=0.05936, Std. Dev.=0.005866, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9222, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill



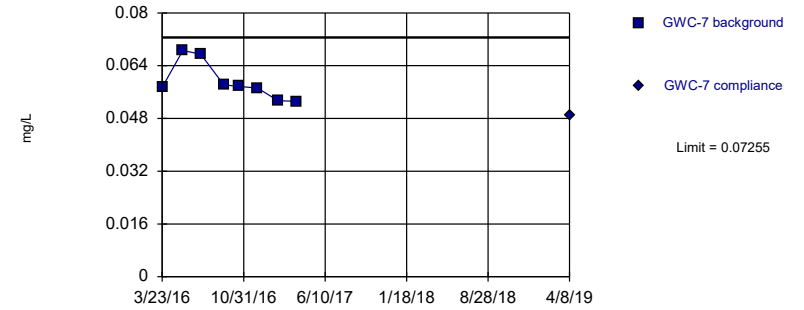
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.03909, Std. Dev.=0.001526, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9715, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

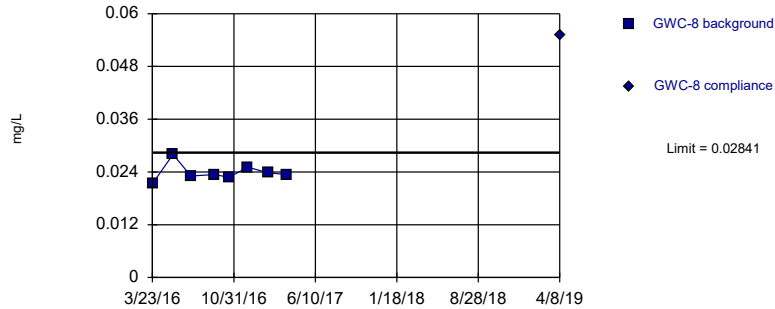
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.05915, Std. Dev.=0.005823, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8225, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

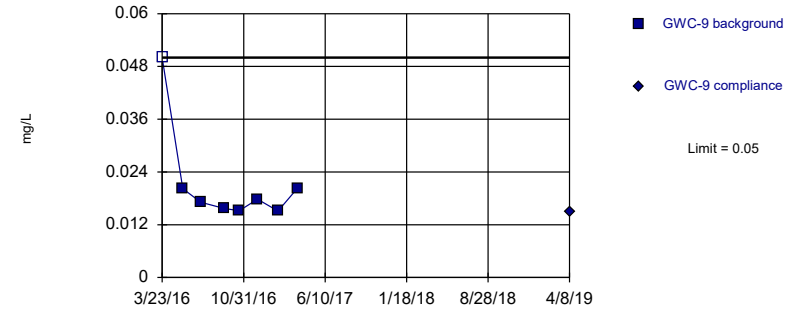
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.02386, Std. Dev.=0.001977, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8792, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Boron Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Non-parametric

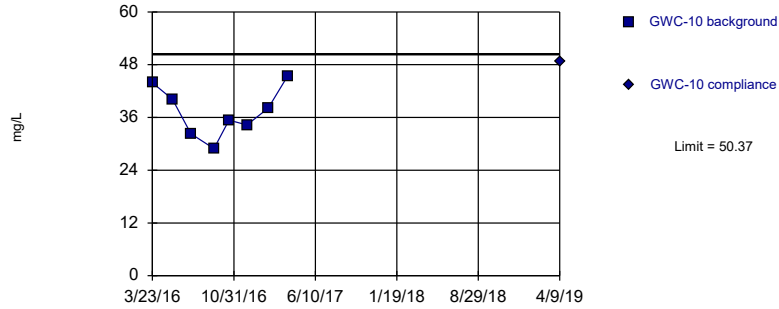


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. 12.5% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

Constituent: Boron Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



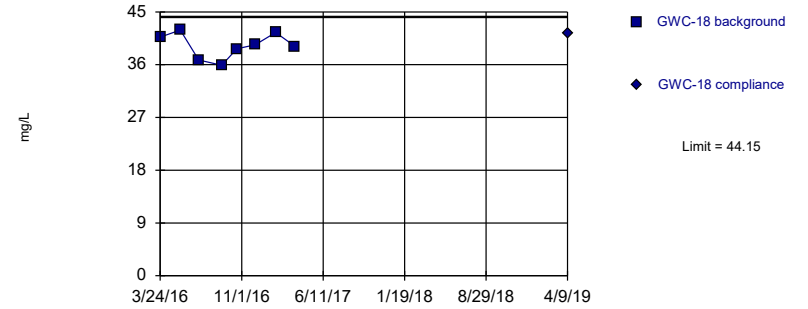
Background Data Summary: Mean=37.3, Std. Dev.=5.68, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9724, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



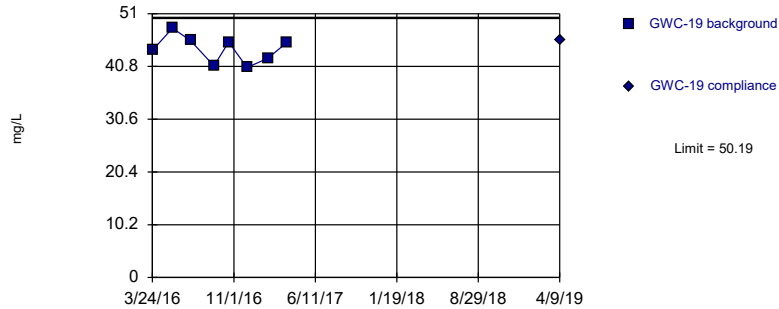
Background Data Summary: Mean=39.25, Std. Dev.=2.13, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9468, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



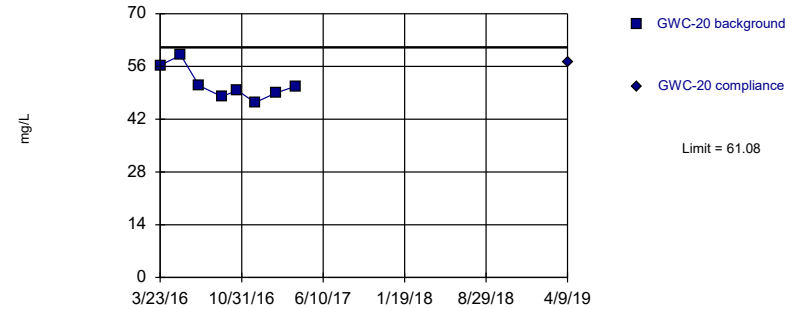
Background Data Summary: Mean=44.1, Std. Dev.=2.647, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9374, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



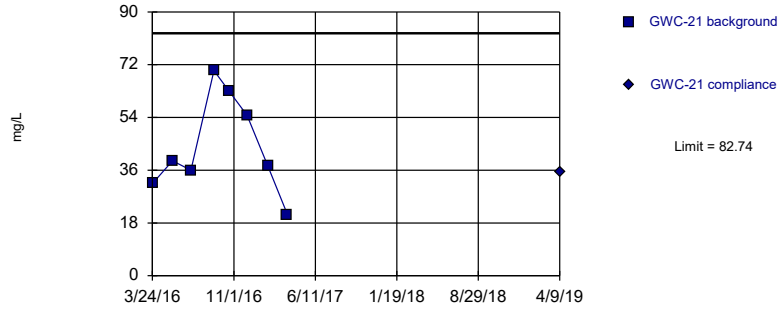
Background Data Summary: Mean=51.25, Std. Dev.=4.268, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8875, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



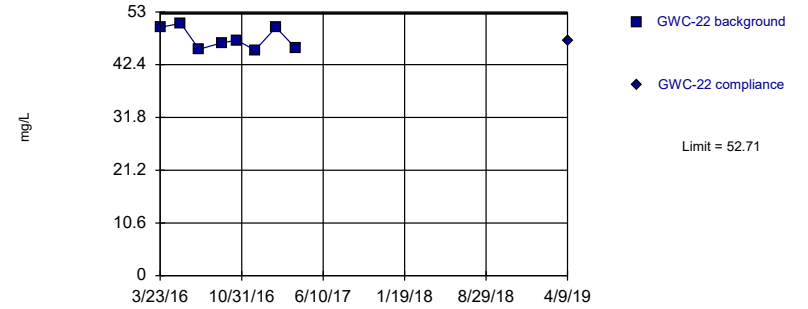
Background Data Summary: Mean=44.08, Std. Dev.=16.79, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9397, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



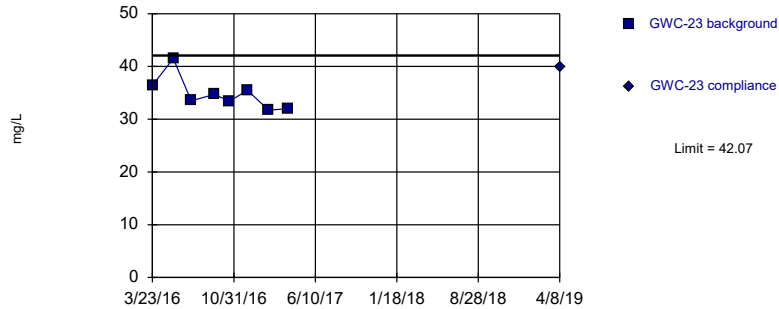
Background Data Summary: Mean=47.65, Std. Dev.=2.199, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8626, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



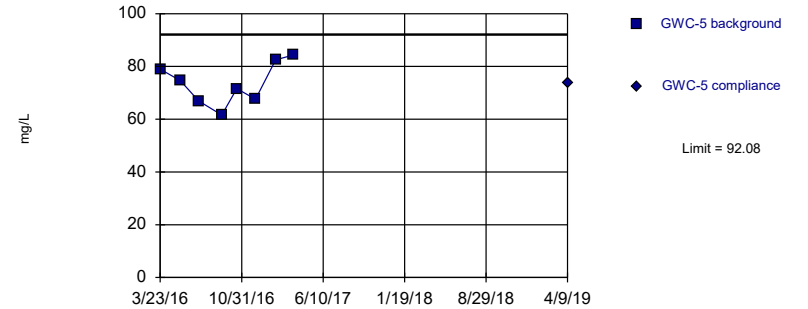
Background Data Summary: Mean=34.84, Std. Dev.=3.14, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8714, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



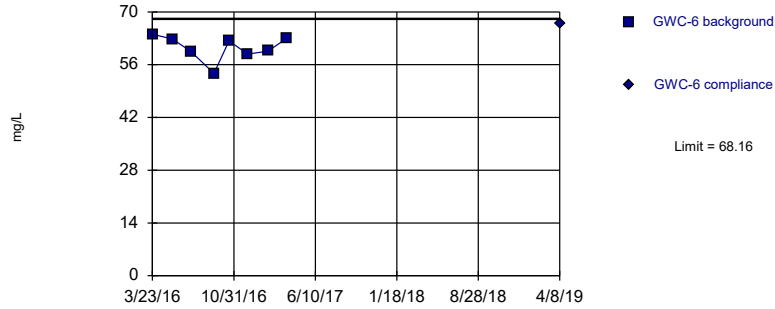
Background Data Summary: Mean=73.53, Std. Dev.=8.061, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9594, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



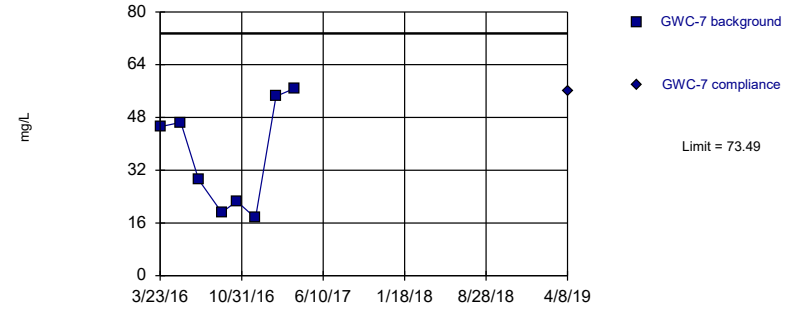
Background Data Summary: Mean=60.46, Std. Dev.=3.342, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.885, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



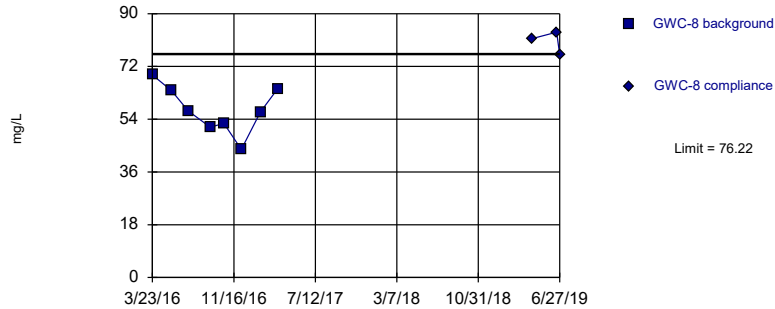
Background Data Summary: Mean=36.41, Std. Dev.=16.11, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8805, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



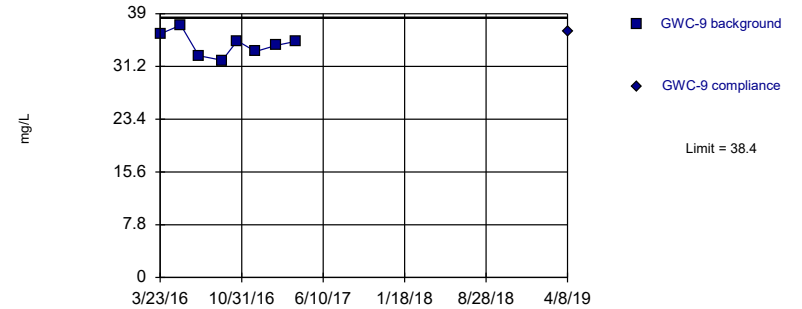
Background Data Summary: Mean=57.26, Std. Dev.=8.234, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9712, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



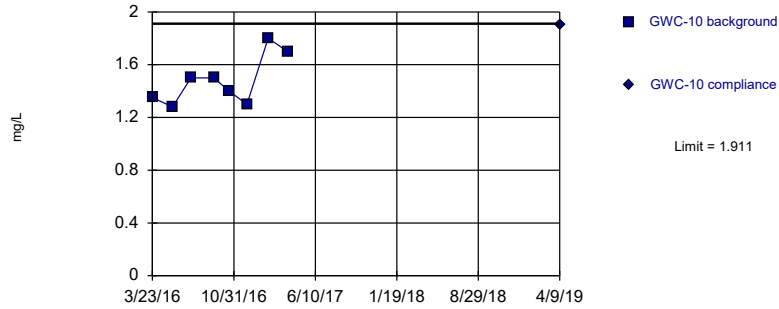
Background Data Summary: Mean=34.48, Std. Dev.=1.707, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9806, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Calcium Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



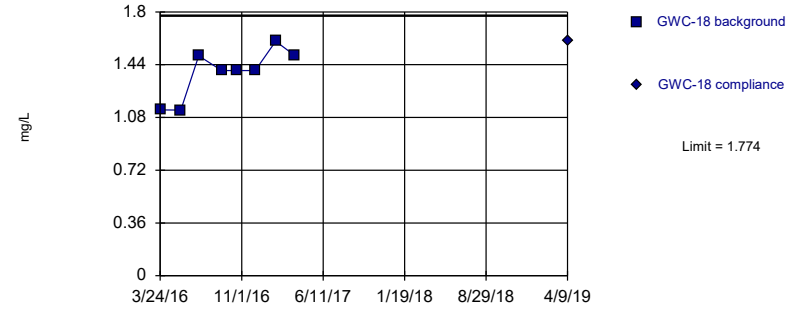
Background Data Summary: Mean=1.479, Std. Dev.=0.1879, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.905, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



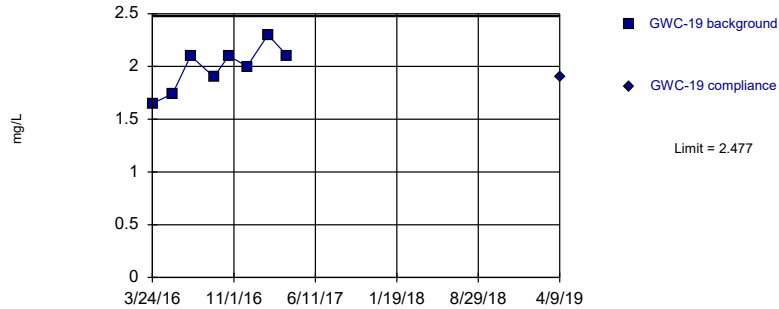
Background Data Summary: Mean=1.383, Std. Dev.=0.1702, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8642, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



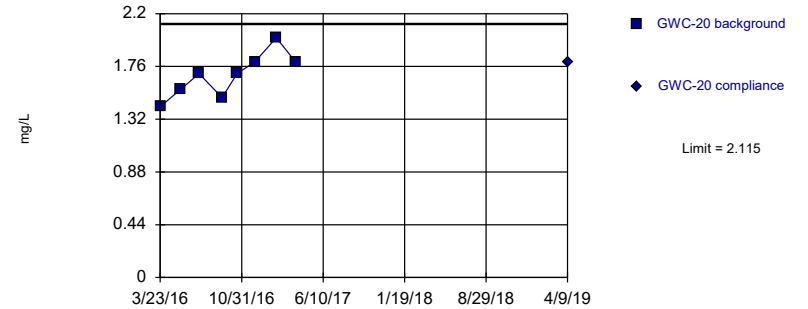
Background Data Summary: Mean=1.986, Std. Dev.=0.2134, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9418, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



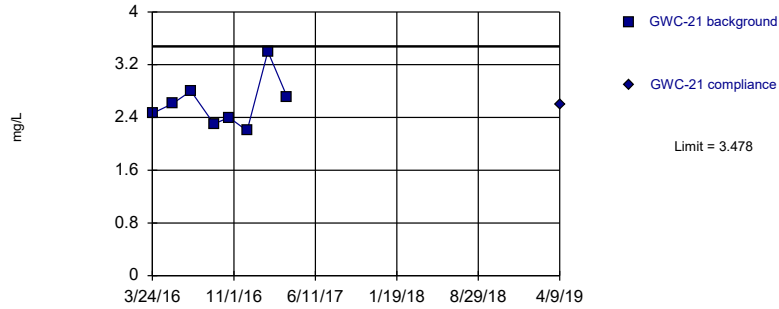
Background Data Summary: Mean=1.687, Std. Dev.=0.1858, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9678, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



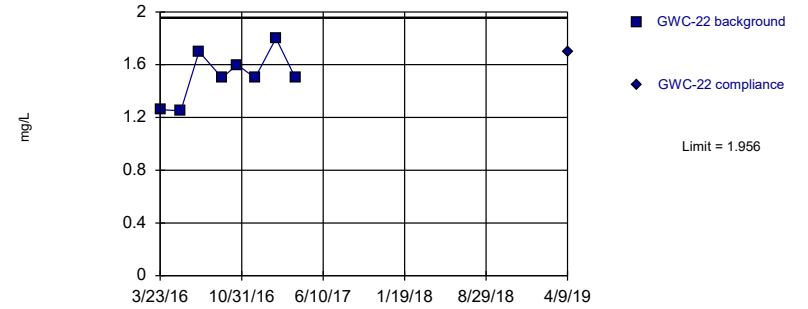
Background Data Summary: Mean=2.609, Std. Dev.=0.3777, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8943, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



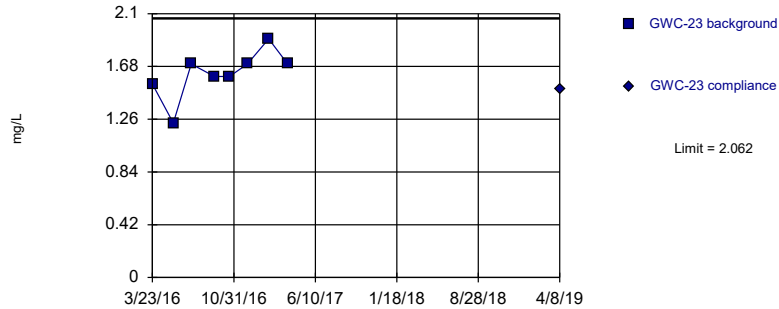
Background Data Summary: Mean=1.514, Std. Dev.=0.1923, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9263, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



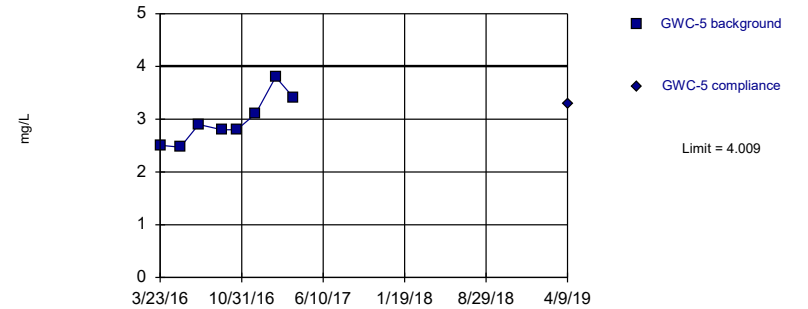
Background Data Summary: Mean=1.621, Std. Dev.=0.1915, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8932, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

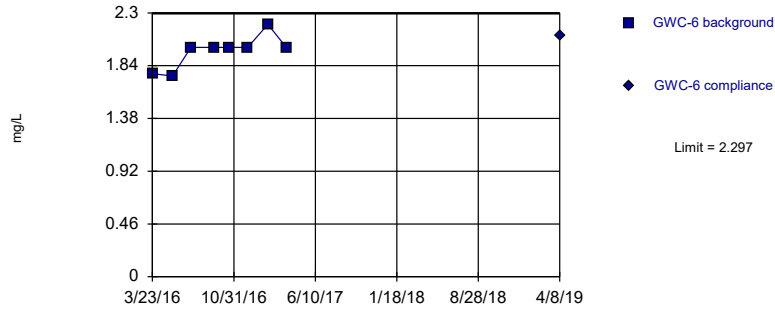


Background Data Summary: Mean=2.972, Std. Dev.=0.4504, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9251, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

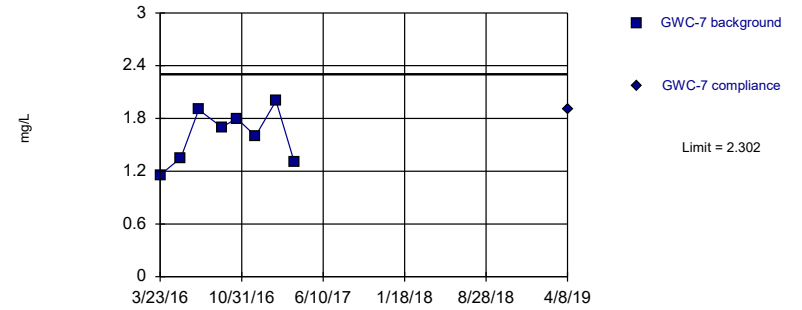
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.965, Std. Dev.=0.144, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8186, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

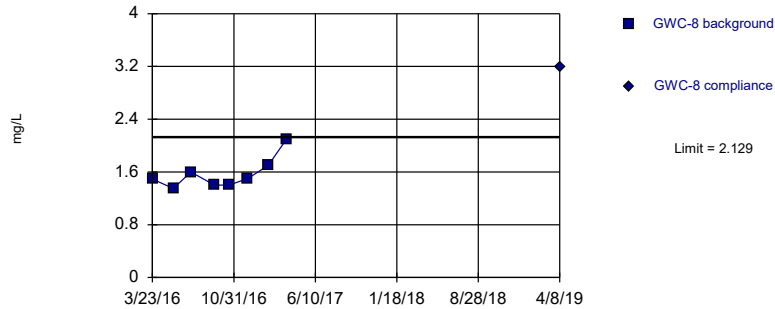
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.601, Std. Dev.=0.3045, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9476, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

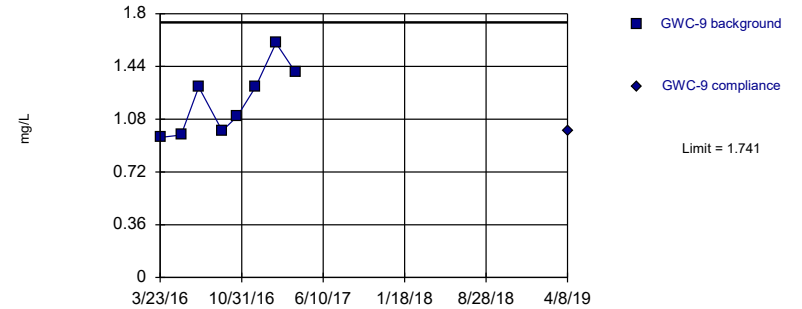
Exceeds Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.568, Std. Dev.=0.2437, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8207, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

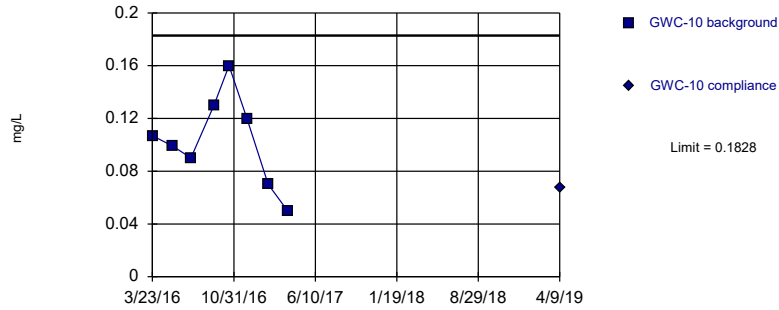
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.204, Std. Dev.=0.2334, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9085, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Chloride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

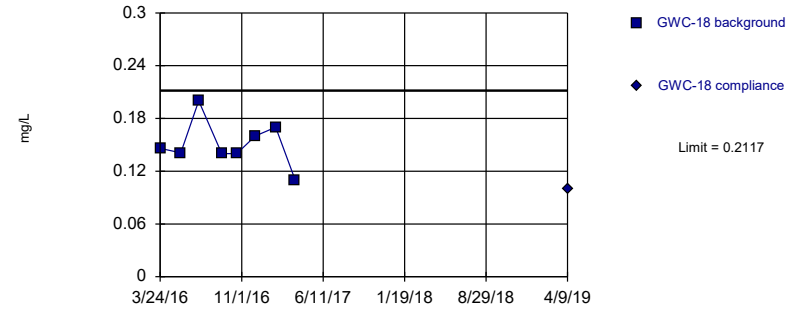
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.1033, Std. Dev.=0.03457, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9949, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

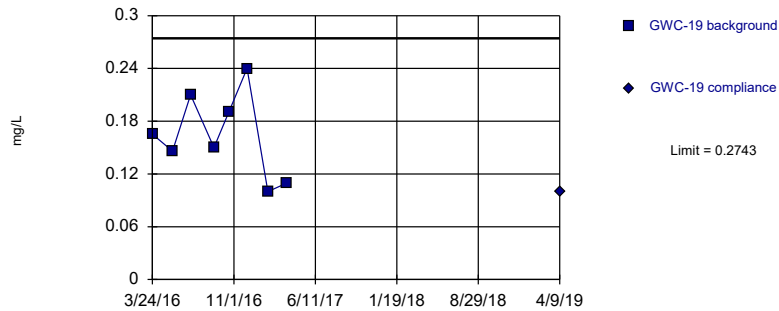
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.1508, Std. Dev.=0.02645, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.937, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

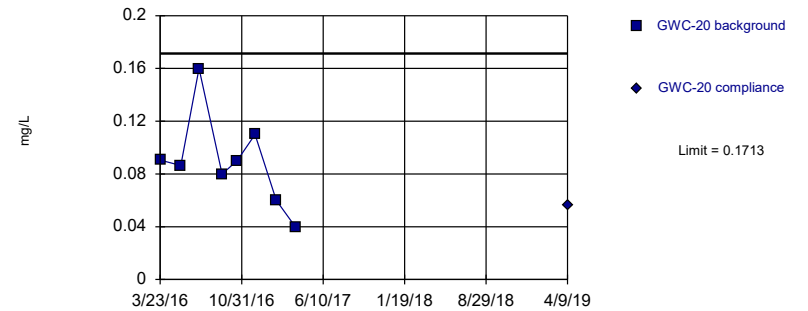
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.1639, Std. Dev.=0.04797, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9688, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric

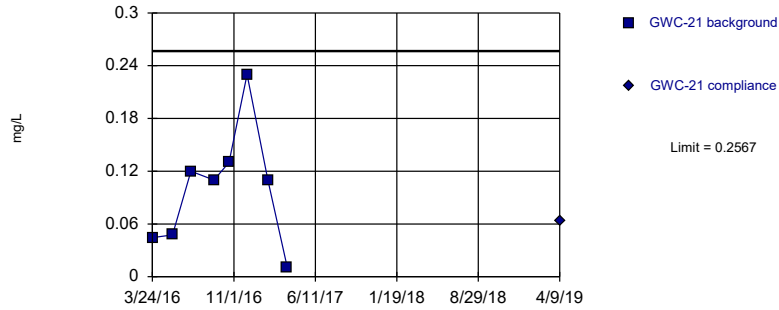


Background Data Summary: Mean=0.08961, Std. Dev.=0.03548, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.929, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill



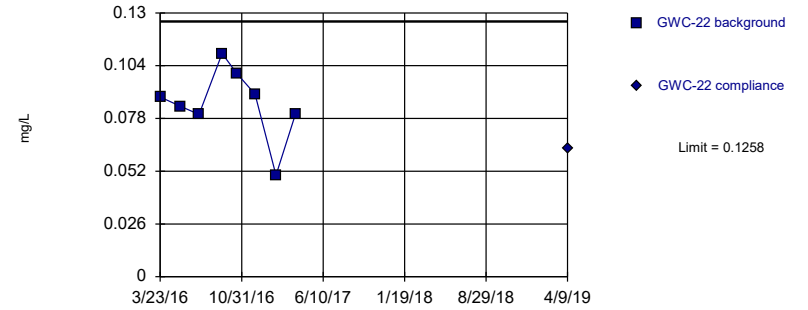
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.1003, Std. Dev.=0.06796, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9239, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

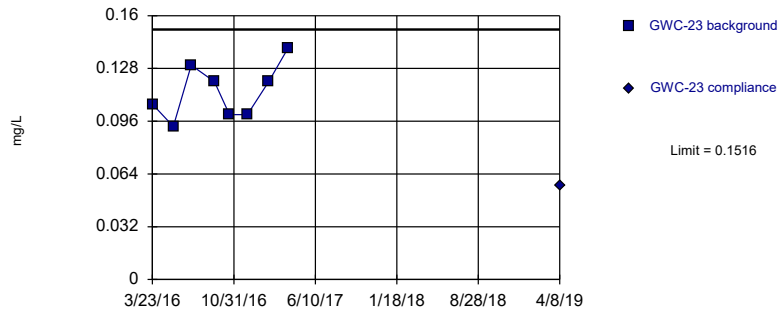
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.08531, Std. Dev.=0.01758, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9214, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

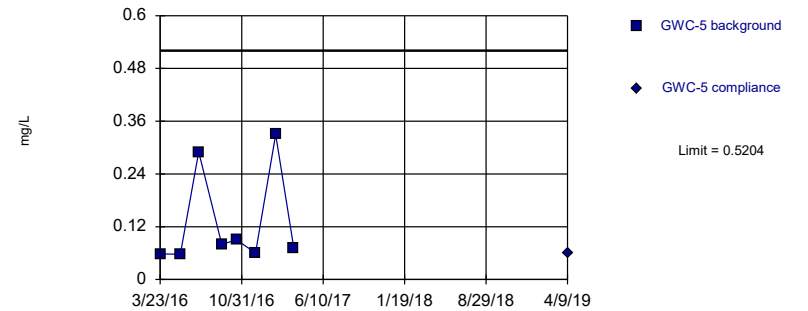
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.1137, Std. Dev.=0.01648, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9409, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

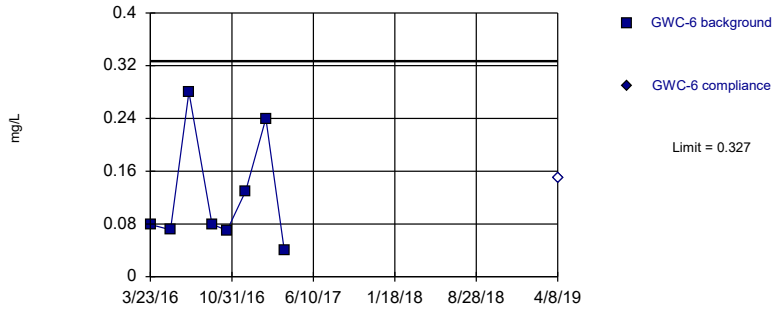
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-2.307, Std. Dev.=0.7186, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7513, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

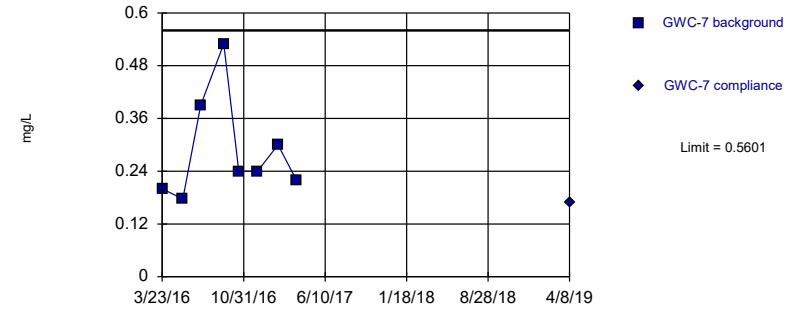
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.1238, Std. Dev.=0.08827, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8035, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

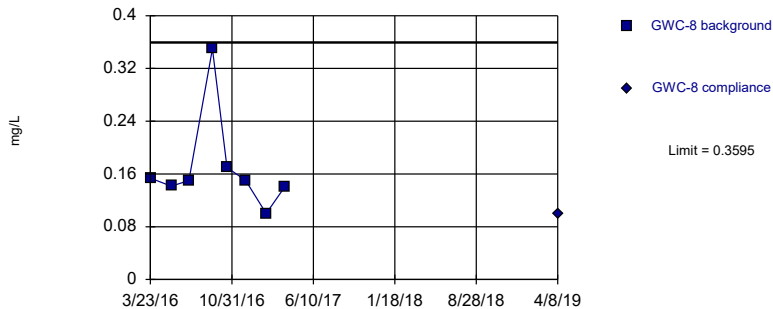
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.2871, Std. Dev.=0.1186, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8416, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

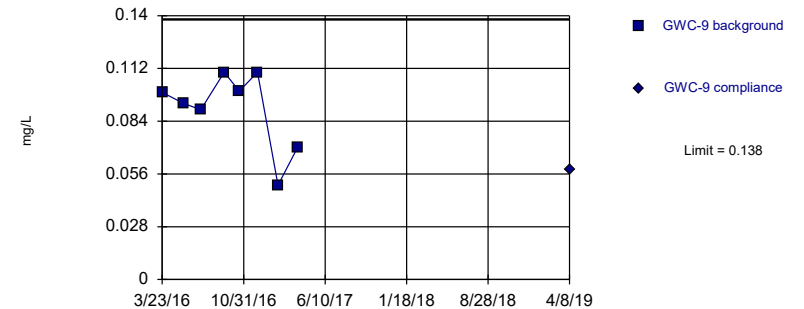
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-1.839, Std. Dev.=0.3546, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7907, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric

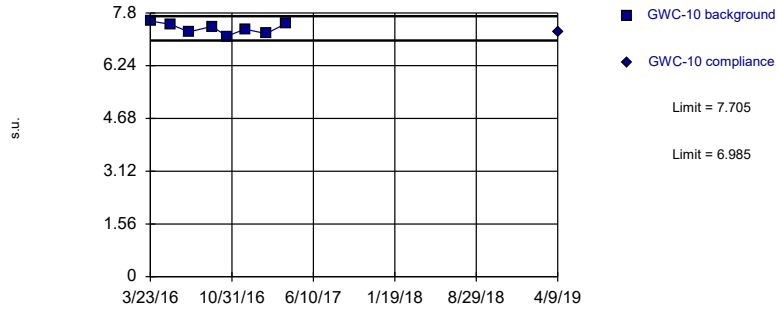


Background Data Summary: Mean=0.09036, Std. Dev.=0.0207, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8685, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Fluoride Analysis Run 8/15/2019 5:07 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric



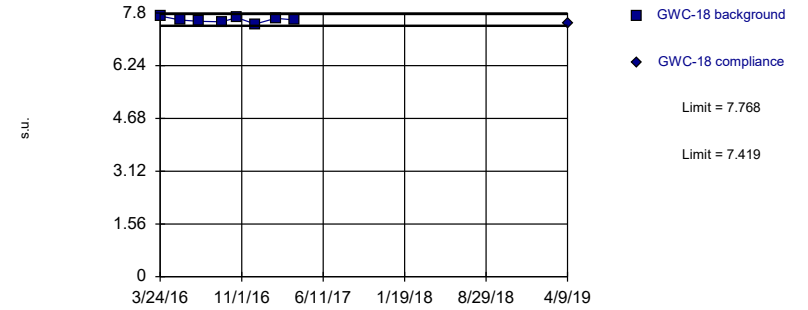
Background Data Summary: Mean=7.345, Std. Dev.=0.1566, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.965, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric



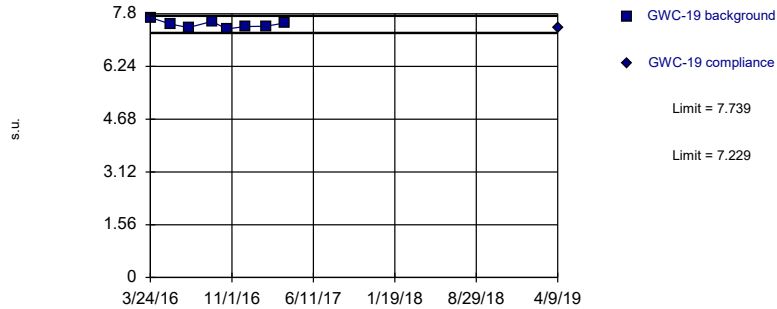
Background Data Summary: Mean=7.594, Std. Dev.=0.07577, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9844, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric



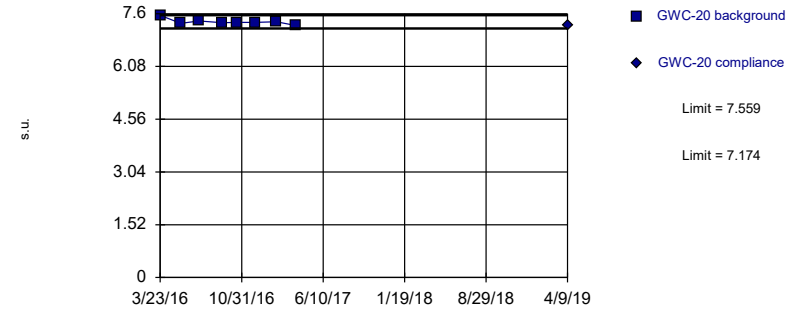
Background Data Summary: Mean=7.484, Std. Dev.=0.1107, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9485, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric



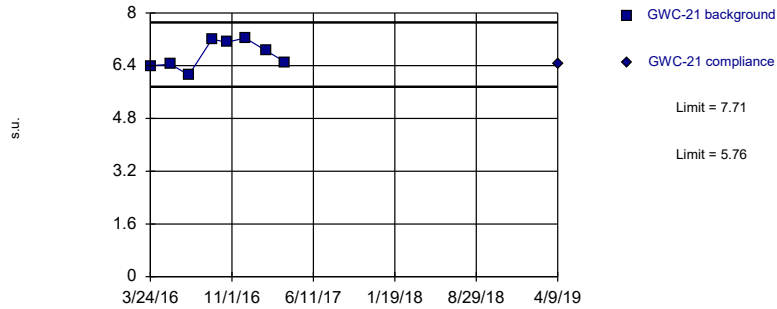
Background Data Summary: Mean=7.366, Std. Dev.=0.08366, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8403, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:07 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limits

### Prediction Limit Intrawell Parametric



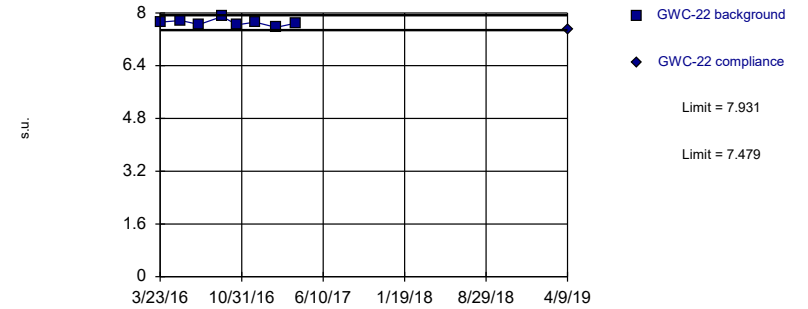
Background Data Summary: Mean=6.735, Std. Dev.=0.4235, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9073, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limits

### Prediction Limit Intrawell Parametric



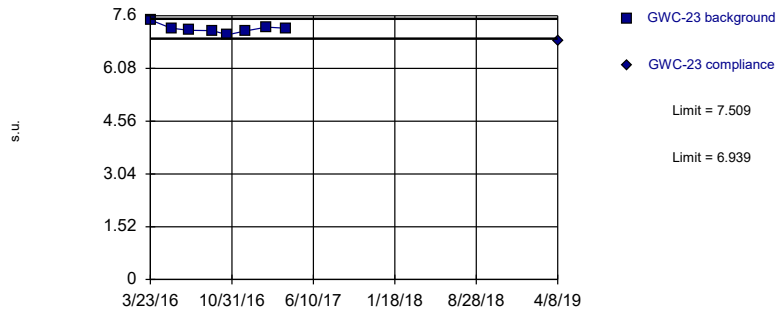
Background Data Summary: Mean=7.705, Std. Dev.=0.09813, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9627, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Exceeds Limits

### Prediction Limit Intrawell Parametric



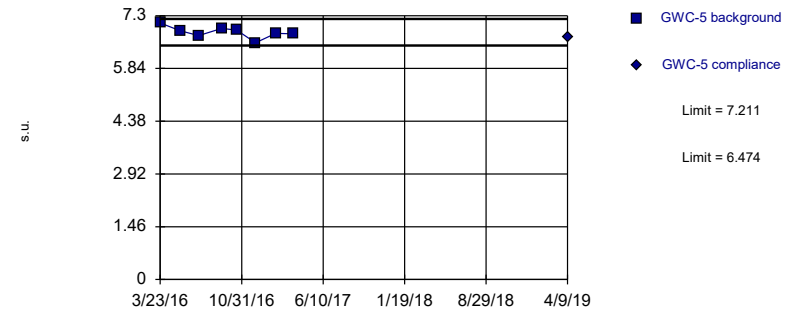
Background Data Summary: Mean=7.224, Std. Dev.=0.1239, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8984, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limits

### Prediction Limit Intrawell Parametric



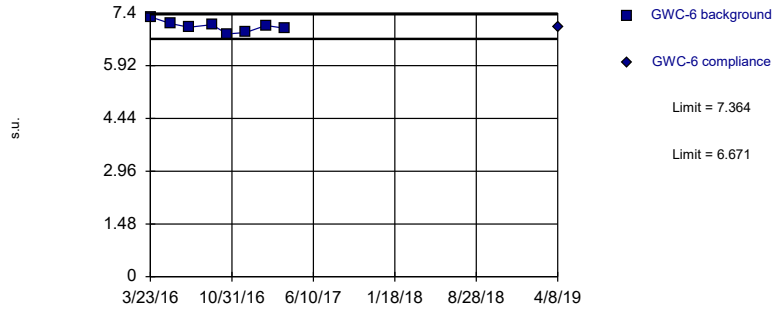
Background Data Summary: Mean=6.843, Std. Dev.=0.1602, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9708, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric



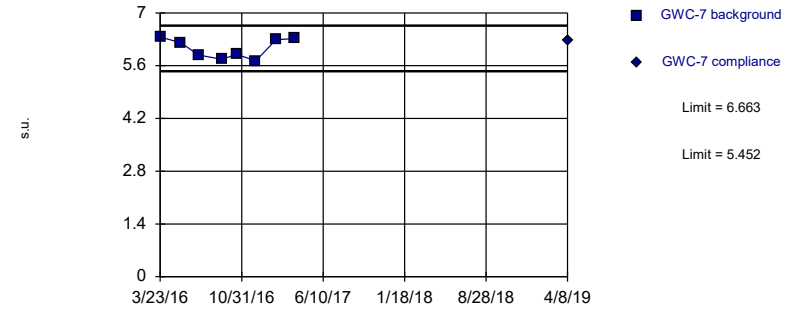
Background Data Summary: Mean=7.018, Std. Dev.=0.1505, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9585, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric



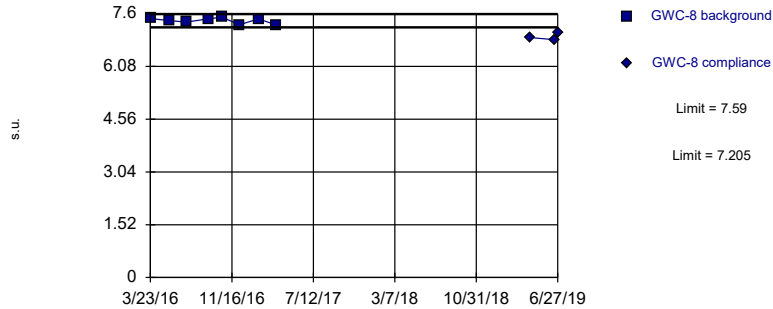
Background Data Summary: Mean=6.058, Std. Dev.=0.2629, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8574, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Exceeds Limits

Prediction Limit  
Intrawell Parametric



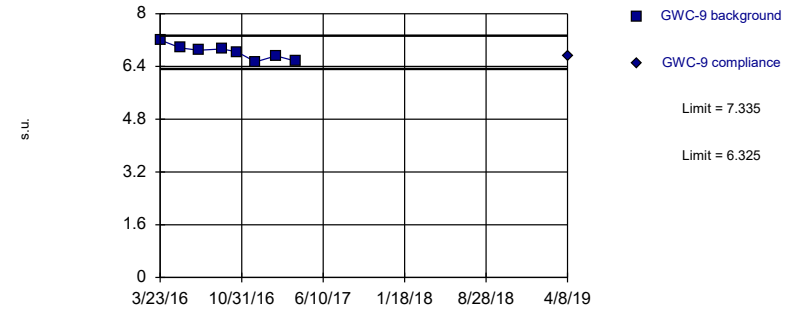
Background Data Summary: Mean=7.398, Std. Dev.=0.08362, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8888, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limits

Prediction Limit  
Intrawell Parametric



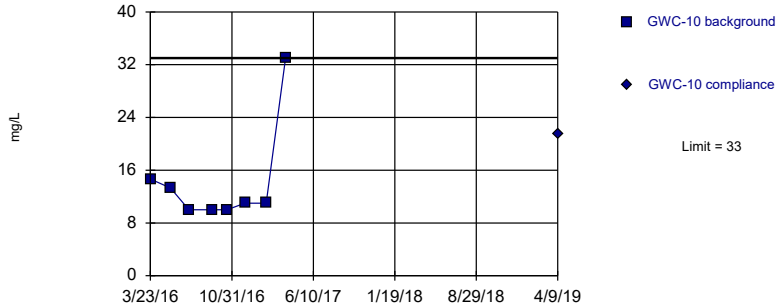
Background Data Summary: Mean=6.83, Std. Dev.=0.2193, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9497, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: pH Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



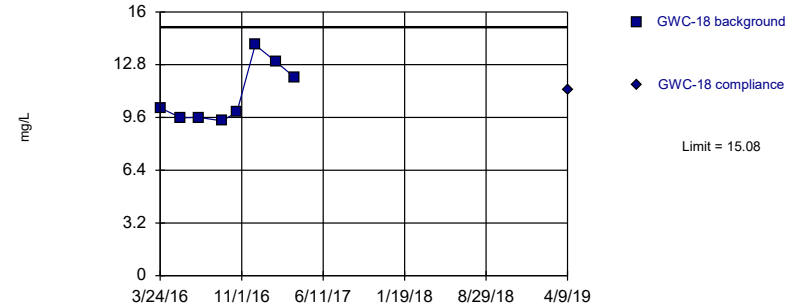
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

Constituent: Sulfate Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



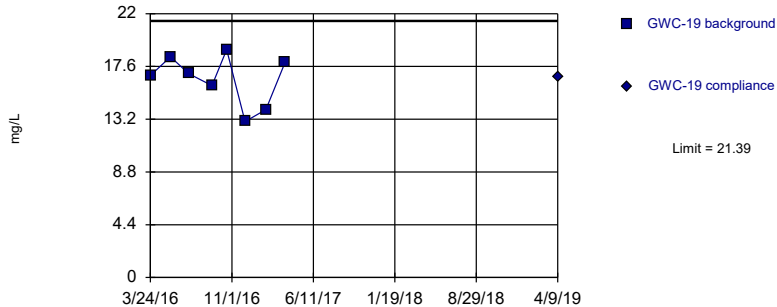
Background Data Summary: Mean=10.96, Std. Dev.=1.789, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8254, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



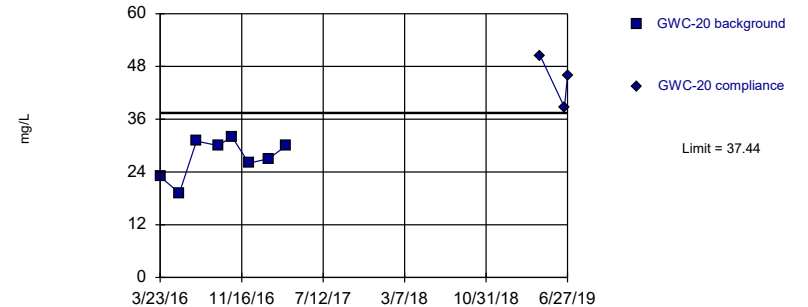
Background Data Summary: Mean=16.53, Std. Dev.=2.112, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9272, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric



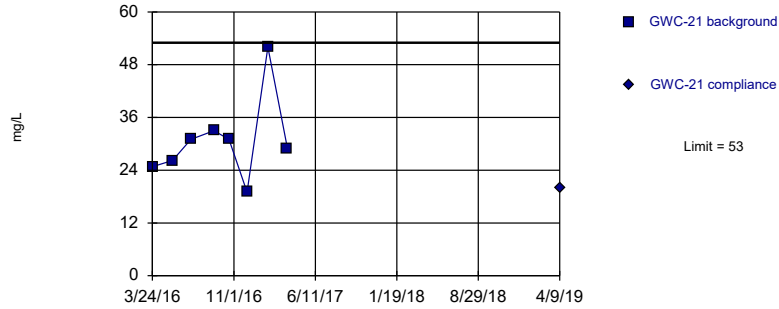
Background Data Summary: Mean=27.27, Std. Dev.=4.416, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9113, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



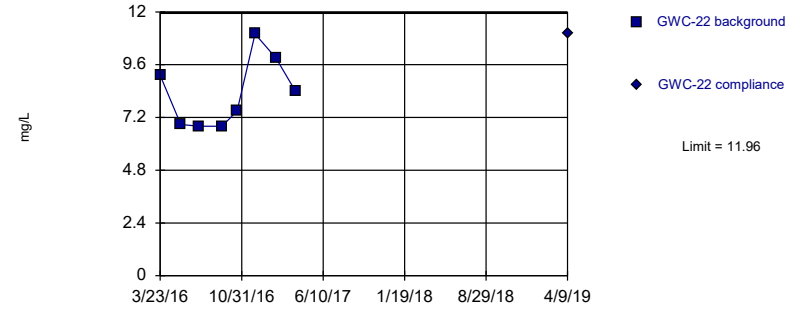
Background Data Summary: Mean=30.75, Std. Dev.=9.665, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8455, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



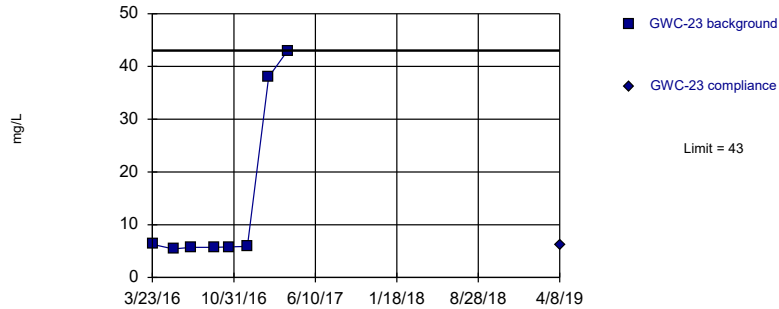
Background Data Summary: Mean=8.3, Std. Dev.=1.59, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8881, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



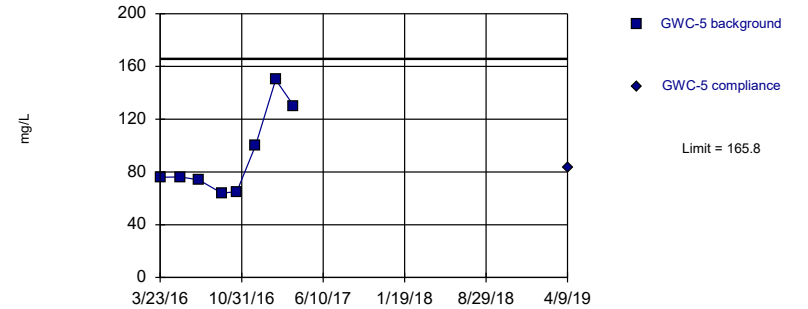
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

Constituent: Sulfate Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

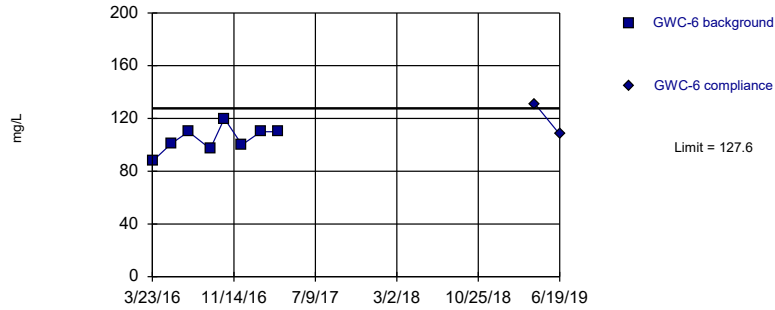


Background Data Summary: Mean=91.9, Std. Dev.=32.1, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8252, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Sulfate Analysis Run 8/15/2019 5:08 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

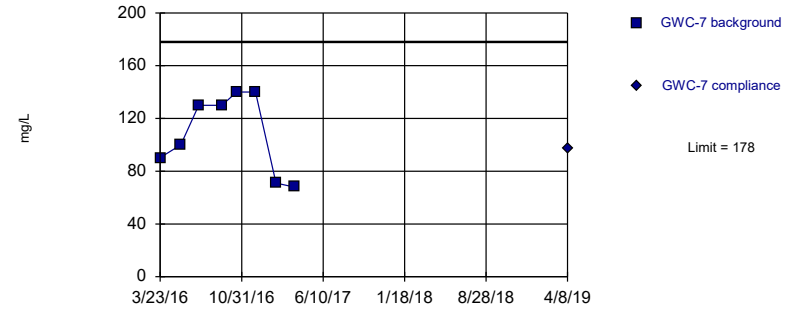
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=104.4, Std. Dev.=10.06, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9561, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

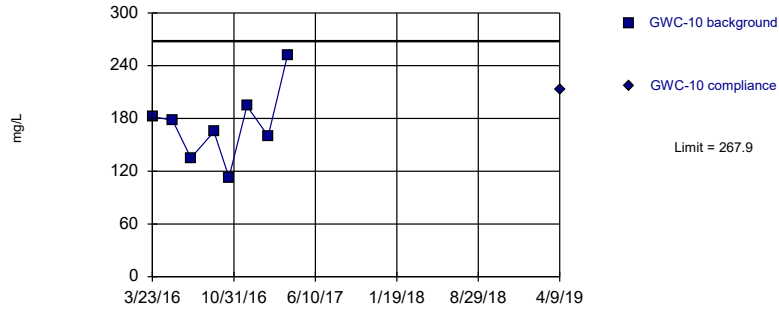
Constituent: Sulfate Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric





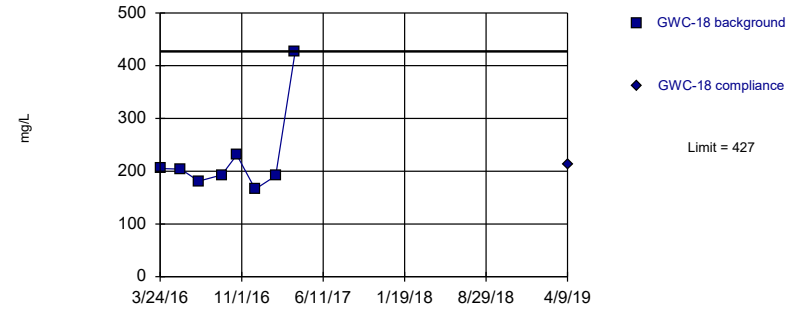
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=172.4, Std. Dev.=41.51, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9555, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

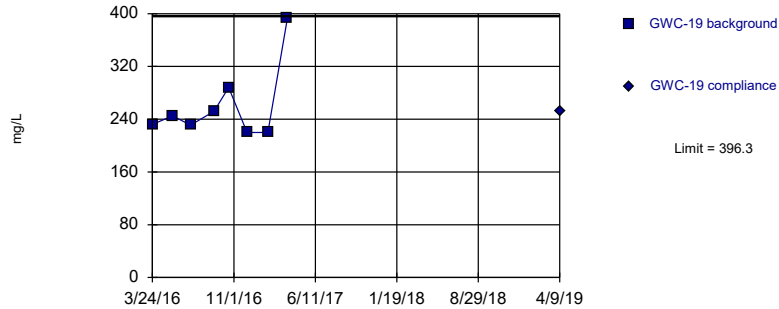
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

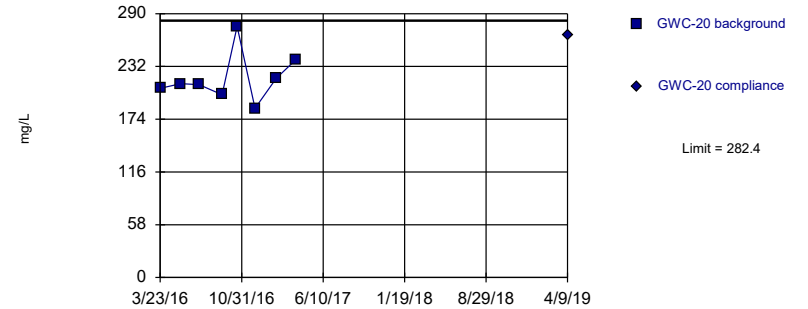
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=16.05, Std. Dev.=1.675, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7504, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Parametric

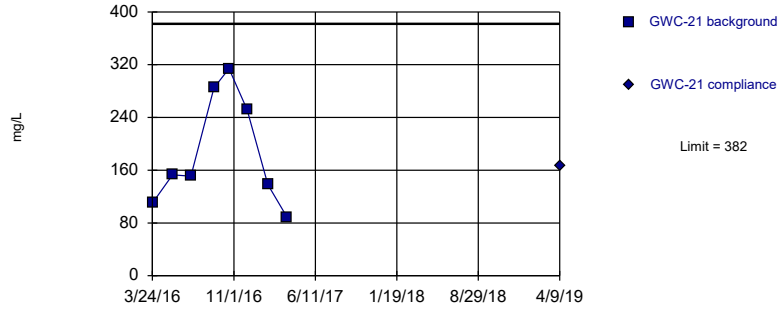


Background Data Summary: Mean=219.3, Std. Dev.=27.43, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8899, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

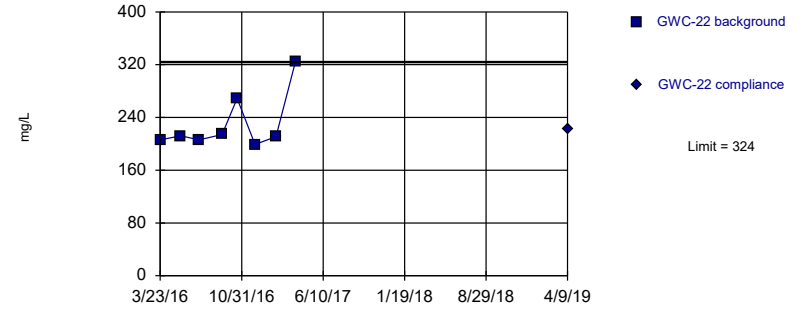


Background Data Summary: Mean=186.4, Std. Dev.=84.97, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8904, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

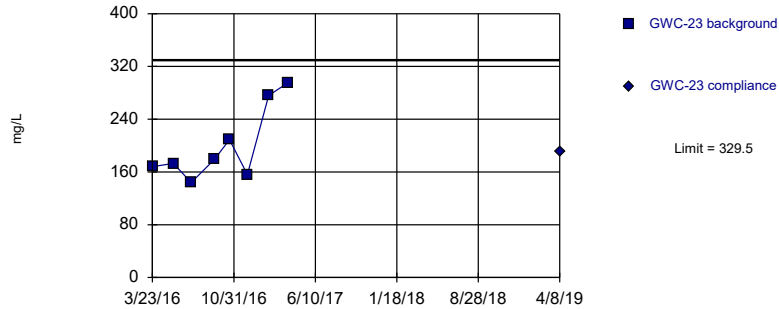


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

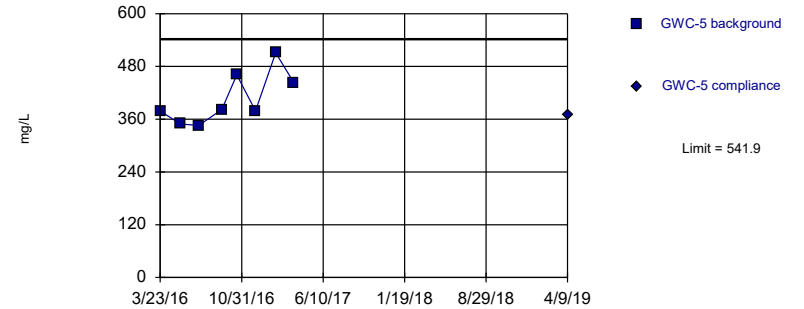


Background Data Summary: Mean=200, Std. Dev.=56.25, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8454, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

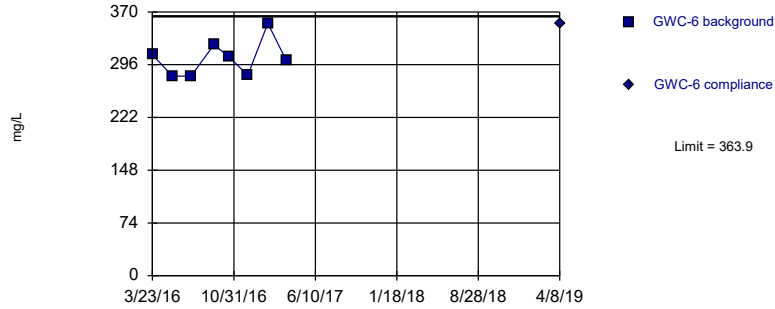


Background Data Summary: Mean=406.3, Std. Dev.=58.92, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8846, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

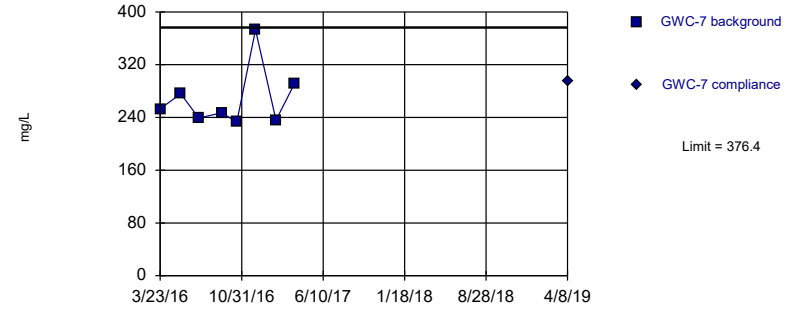


Background Data Summary: Mean=304.8, Std. Dev.=25.71, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8867, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric

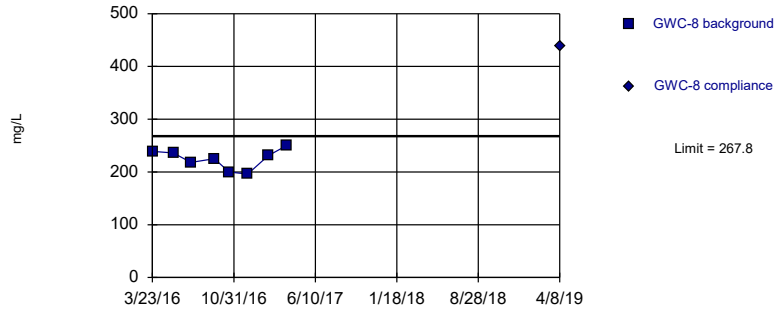


Background Data Summary: Mean=268.5, Std. Dev.=46.86, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7717, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric

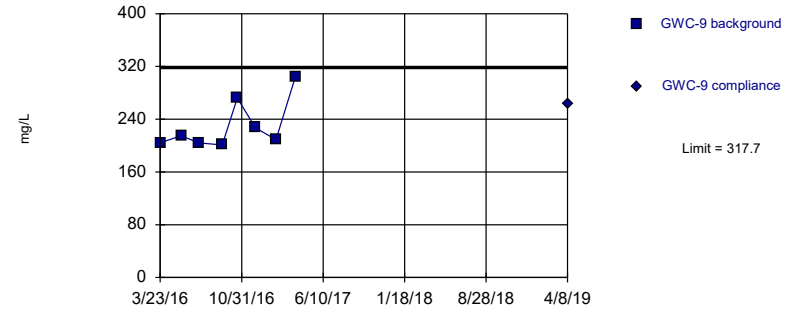


Background Data Summary: Mean=224.4, Std. Dev.=18.86, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9445, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=229.6, Std. Dev.=38.28, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7689, critical = 0.749. Kappa = 2.302 (c=7, w=12, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006269.

Constituent: Total Dissolved Solids Analysis Run 8/15/2019 5:08 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	0.0354 (J)	
5/17/2016	0.0349 (J)	
7/6/2016	0.0308 (J)	
9/7/2016	0.0283 (J)	
10/18/2016	0.0292 (J)	
12/6/2016	0.0287 (J)	
2/2/2017	0.0334 (J)	
3/27/2017	0.0396 (J)	
4/9/2019		0.035 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	0.122	
5/18/2016	0.139	
7/7/2016	0.12	
9/8/2016	0.126	
10/19/2016	0.133	
12/8/2016	0.119	
2/2/2017	0.132	
3/27/2017	0.134	
4/9/2019		0.12

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	0.173	
5/18/2016	0.186	
7/6/2016	0.184	
9/8/2016	0.173	
10/18/2016	0.171	
12/7/2016	0.203	
2/2/2017	0.187	
3/27/2017	0.182	
4/9/2019		0.17

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	<0.1	
5/18/2016	0.0229 (J)	
7/7/2016	0.0169 (J)	
9/8/2016	0.0178 (J)	
10/19/2016	0.018 (J)	
12/7/2016	0.0248 (J)	
2/3/2017	0.0171 (J)	
3/27/2017	0.0181 (J)	
4/9/2019		0.011 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	0.0232 (J)	
5/18/2016	0.0289 (J)	
7/7/2016	0.0313 (J)	
9/8/2016	0.0593 (J)	
10/19/2016	0.087 (J)	
12/7/2016	0.127	
2/2/2017	0.0318 (J)	
3/27/2017	0.0225 (J)	
4/9/2019		0.014 (J)



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	0.0649 (J)	
5/18/2016	0.0781 (J)	
7/7/2016	0.0621 (J)	
9/8/2016	0.0607 (J)	
10/19/2016	0.0733 (J)	
12/7/2016	0.0758	
2/2/2017	0.0729	
3/27/2017	0.0698	
4/9/2019		0.063

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	<0.1	
5/19/2016	0.0212 (J)	
7/7/2016	0.0183 (J)	
9/8/2016	0.017 (J)	
10/19/2016	0.0203 (J)	
12/7/2016	0.0215 (J)	
2/3/2017	0.0812	
3/27/2017	0.125	
4/8/2019		0.022 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	0.0509 (J)	
5/17/2016	0.0565 (J)	
7/6/2016	0.0628 (J)	
9/7/2016	0.0648 (J)	
10/18/2016	0.0666 (J)	
12/8/2016	0.062	
2/1/2017	0.0516	
3/23/2017	0.0597	
4/9/2019		0.048

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	0.0379 (J)	
5/17/2016	0.0395 (J)	
7/6/2016	0.0393 (J)	
9/7/2016	0.04 (J)	
10/18/2016	0.0366 (J)	
12/8/2016	0.0397 (J)	
2/1/2017	0.0381 (J)	
3/23/2017	0.0416	
4/8/2019		0.036 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	0.0574 (J)	
5/18/2016	0.0686 (J)	
7/6/2016	0.0675 (J)	
9/7/2016	0.0582 (J)	
10/18/2016	0.0577 (J)	
12/8/2016	0.0572	
2/2/2017	0.0534	
3/24/2017	0.0532	
4/8/2019		0.049 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	0.0213 (J)	
5/18/2016	0.028 (J)	
7/6/2016	0.0231 (J)	
9/8/2016	0.0234 (J)	
10/18/2016	0.0228 (J)	
12/8/2016	0.0251 (J)	
2/2/2017	0.0238 (J)	
3/24/2017	0.0234 (J)	
4/8/2019		0.055 (J)

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	<0.1	
5/18/2016	0.0202 (J)	
7/6/2016	0.0171 (J)	
9/8/2016	0.0157 (J)	
10/19/2016	0.0152 (J)	
12/8/2016	0.0178 (J)	
2/2/2017	0.0151 (J)	
3/27/2017	0.0203 (J)	
4/8/2019		0.015 (J)

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	43.9	
5/17/2016	40.1	
7/6/2016	32.3	
9/7/2016	28.9	
10/18/2016	35.4	
12/6/2016	34.3	
2/2/2017	38.1	
3/27/2017	45.4	
4/9/2019		48.8



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	40.7	
5/18/2016	41.9	
7/7/2016	36.8	
9/8/2016	35.9	
10/19/2016	38.7	
12/8/2016	39.4	
2/2/2017	41.5	
3/27/2017	39.1	
4/9/2019		41.4

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	43.9	
5/18/2016	48.2	
7/6/2016	45.8	
9/8/2016	40.9	
10/18/2016	45.5	
12/7/2016	40.6	
2/2/2017	42.4	
3/27/2017	45.5	
4/9/2019		45.8

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	56.3	
5/18/2016	59	
7/7/2016	50.9	
9/8/2016	48	
10/19/2016	49.7	
12/7/2016	46.4	
2/3/2017	49	
3/27/2017	50.7	
4/9/2019		57.1

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	31.4	
5/18/2016	39.2	
7/7/2016	36	
9/8/2016	70	
10/19/2016	63	
12/7/2016	54.7	
2/2/2017	37.4	
3/27/2017	20.9	
4/9/2019		35.4

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	49.9	
5/18/2016	50.7	
7/7/2016	45.5	
9/8/2016	46.8	
10/19/2016	47.3	
12/7/2016	45.3	
2/2/2017	49.9	
3/27/2017	45.8	
4/9/2019		47.3

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	36.4	
5/19/2016	41.5	
7/7/2016	33.5	
9/8/2016	34.7	
10/19/2016	33.4	
12/7/2016	35.5	
2/3/2017	31.7	
3/27/2017	32	
4/8/2019		39.8

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	79	
5/17/2016	74.6	
7/6/2016	66.9	
9/7/2016	61.6	
10/18/2016	71.6	
12/8/2016	67.6	
2/1/2017	82.5	
3/23/2017	84.4	
4/9/2019		73.9

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	64.1	
5/17/2016	62.8	
7/6/2016	59.5	
9/7/2016	53.7	
10/18/2016	62.3	
12/8/2016	58.8	
2/1/2017	59.6	
3/23/2017	62.9	
4/8/2019		67



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	45.2	
5/18/2016	46.5	
7/6/2016	29.1	
9/7/2016	19.2	
10/18/2016	22.6	
12/8/2016	17.5	
2/2/2017	54.4	
3/24/2017	56.8	
4/8/2019		56.1

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	69.1	
5/18/2016	63.7	
7/6/2016	56.8	
9/8/2016	51.3	
10/18/2016	52.6	
12/8/2016	43.7	
2/2/2017	56.5	
3/24/2017	64.4	
4/8/2019		81.5
6/18/2019		83.7
6/27/2019		75.9

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	36	
5/18/2016	37.3	
7/6/2016	32.8	
9/8/2016	32.1	
10/19/2016	35	
12/8/2016	33.4	
2/2/2017	34.3	
3/27/2017	34.9	
4/8/2019		36.3

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	1.3507	
5/17/2016	1.28	
7/6/2016	1.5	
9/7/2016	1.5	
10/18/2016	1.4	
12/6/2016	1.3	
2/2/2017	1.8	
3/27/2017	1.7	
4/9/2019		1.9

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	1.1313	
5/19/2016	1.13	
7/7/2016	1.5	
9/8/2016	1.4	
10/19/2016	1.4	
12/8/2016	1.4	
2/2/2017	1.6	
3/27/2017	1.5	
4/9/2019		1.6

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	1.6497	
5/18/2016	1.74	
7/6/2016	2.1	
9/8/2016	1.9	
10/18/2016	2.1	
12/7/2016	2	
2/2/2017	2.3	
3/27/2017	2.1	
4/9/2019		1.9

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	1.4238	
5/18/2016	1.57	
7/7/2016	1.7	
9/8/2016	1.5	
10/19/2016	1.7	
12/7/2016	1.8	
2/3/2017	2	
3/27/2017	1.8	
4/9/2019		1.8

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	2.461	
5/18/2016	2.61	
7/7/2016	2.8	
9/8/2016	2.3	
10/19/2016	2.4	
12/7/2016	2.2	
2/2/2017	3.4	
3/27/2017	2.7	
4/9/2019		2.6



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	1.2595	
5/18/2016	1.25	
7/7/2016	1.7	
9/8/2016	1.5	
10/19/2016	1.6	
12/7/2016	1.5	
2/2/2017	1.8	
3/27/2017	1.5	
4/9/2019		1.7

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	1.5409	
5/19/2016	1.23	
7/7/2016	1.7	
9/8/2016	1.6	
10/19/2016	1.6	
12/7/2016	1.7	
2/3/2017	1.9	
3/27/2017	1.7	
4/8/2019		1.5

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	2.5045	
5/17/2016	2.47	
7/6/2016	2.9	
9/7/2016	2.8	
10/18/2016	2.8	
12/8/2016	3.1	
2/1/2017	3.8	
3/23/2017	3.4	
4/9/2019		3.3

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	1.7709	
5/17/2016	1.75	
7/6/2016	2	
9/7/2016	2	
10/18/2016	2	
12/8/2016	2	
2/1/2017	2.2	
3/23/2017	2	
4/8/2019		2.1

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	1.1569	
5/18/2016	1.35	
7/6/2016	1.9	
9/7/2016	1.7	
10/18/2016	1.8	
12/8/2016	1.6	
2/2/2017	2	
3/24/2017	1.3	
4/8/2019		1.9

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	1.4936	
5/19/2016	1.35	
7/6/2016	1.6	
9/8/2016	1.4	
10/18/2016	1.4	
12/8/2016	1.5	
2/2/2017	1.7	
3/24/2017	2.1	
4/8/2019		3.2

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	0.9561	
5/19/2016	0.972	
7/6/2016	1.3	
9/8/2016	1	
10/19/2016	1.1	
12/8/2016	1.3	
2/2/2017	1.6	
3/27/2017	1.4	
4/8/2019		1

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	0.1069 (J)	
5/17/2016	0.0991 (J)	
7/6/2016	0.09 (J)	
9/7/2016	0.13 (J)	
10/18/2016	0.16 (J)	
12/6/2016	0.12 (J)	
2/2/2017	0.07 (J)	
3/27/2017	0.05 (J)	
4/9/2019		0.067 (J)



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	0.1459 (J)	
5/19/2016	0.1408 (J)	
7/7/2016	0.2 (J)	
9/8/2016	0.14 (J)	
10/19/2016	0.14 (J)	
12/8/2016	0.16 (J)	
2/2/2017	0.17 (J)	
3/27/2017	0.11 (J)	
4/9/2019		0.1 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	0.1652 (J)	
5/18/2016	0.1459 (J)	
7/6/2016	0.21 (J)	
9/8/2016	0.15 (J)	
10/18/2016	0.19 (J)	
12/7/2016	0.24 (J)	
2/2/2017	0.1 (J)	
3/27/2017	0.11 (J)	
4/9/2019		0.1 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	0.0905 (J)	
5/18/2016	0.0864 (J)	
7/7/2016	0.16 (J)	
9/8/2016	0.08 (J)	
10/19/2016	0.09 (J)	
12/7/2016	0.11 (J)	
2/3/2017	0.06 (J)	
3/27/2017	0.04 (J)	
4/9/2019		0.056 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	0.0445 (J)	
5/18/2016	0.0476 (J)	
7/7/2016	0.12 (J)	
9/8/2016	0.11 (J)	
10/19/2016	0.13 (J)	
12/7/2016	0.23 (J)	
2/2/2017	0.11 (J)	
3/27/2017	0.01 (J)	
4/9/2019		0.063 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	0.0886 (J)	
5/18/2016	0.0839 (J)	
7/7/2016	0.08 (J)	
9/8/2016	0.11 (J)	
10/19/2016	0.1 (J)	
12/7/2016	0.09 (J)	
2/2/2017	0.05 (J)	
3/27/2017	0.08 (J)	
4/9/2019		0.063 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	0.1064 (J)	
5/19/2016	0.0928 (J)	
7/7/2016	0.13 (J)	
9/8/2016	0.12 (J)	
10/19/2016	0.1 (J)	
12/7/2016	0.1 (J)	
2/3/2017	0.12 (J)	
3/27/2017	0.14 (J)	
4/8/2019		0.057 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	0.0582 (J)	
5/17/2016	0.0571 (J)	
7/6/2016	0.29 (J)	
9/7/2016	0.08 (J)	
10/18/2016	0.09 (J)	
12/8/2016	0.06 (J)	
2/1/2017	0.33	
3/23/2017	0.07 (J)	
4/9/2019		0.061 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	0.0791 (J)	
5/17/2016	0.0712 (J)	
7/6/2016	0.28 (J)	
9/7/2016	0.08 (J)	
10/18/2016	0.07 (J)	
12/8/2016	0.13 (J)	
2/1/2017	0.24 (J)	
3/23/2017	0.04 (J)	
4/8/2019		<0.3



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	0.2004 (J)	
5/18/2016	0.1766 (J)	
7/6/2016	0.39	
9/7/2016	0.53	
10/18/2016	0.24 (J)	
12/8/2016	0.24 (J)	
2/2/2017	0.3 (J)	
3/24/2017	0.22 (J)	
4/8/2019		0.17 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	0.1537 (J)	
5/19/2016	0.1414 (J)	
7/6/2016	0.15 (J)	
9/8/2016	0.35	
10/18/2016	0.17 (J)	
12/8/2016	0.15 (J)	
2/2/2017	0.1 (J)	
3/24/2017	0.14 (J)	
4/8/2019		0.1 (J)

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	0.0993 (J)	
5/19/2016	0.0936 (J)	
7/6/2016	0.09 (J)	
9/8/2016	0.11 (J)	
10/19/2016	0.1 (J)	
12/8/2016	0.11 (J)	
2/2/2017	0.05 (J)	
3/27/2017	0.07 (J)	
4/8/2019		0.058 (J)

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	7.56	
5/17/2016	7.46	
7/6/2016	7.24	
9/7/2016	7.4	
10/18/2016	7.11	
12/6/2016	7.32	
2/2/2017	7.19	
3/27/2017	7.48	
4/9/2019		7.22

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	7.71	
5/18/2016	7.59	
7/7/2016	7.55	
9/8/2016	7.54	
10/19/2016	7.66	
12/8/2016	7.47	
2/2/2017	7.64	
3/27/2017	7.59	
4/9/2019		7.48

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	7.69	
5/18/2016	7.49	
7/6/2016	7.39	
9/8/2016	7.57	
10/18/2016	7.35	
12/7/2016	7.42	
2/2/2017	7.43	
3/27/2017	7.53	
4/9/2019		7.4

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	7.55	
5/18/2016	7.32	
7/7/2016	7.39	
9/8/2016	7.34	
10/19/2016	7.35	
12/7/2016	7.35	
2/3/2017	7.37	
3/27/2017	7.26	
4/9/2019		7.26

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	6.4	
5/18/2016	6.44	
7/7/2016	6.12	
9/8/2016	7.2	
10/19/2016	7.11	
12/7/2016	7.24	
2/2/2017	6.86	
3/27/2017	6.51	
4/9/2019		6.46



# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	7.72	
5/18/2016	7.77	
7/7/2016	7.65	
9/8/2016	7.89	
10/19/2016	7.64	
12/7/2016	7.72	
2/2/2017	7.56	
3/27/2017	7.69	
4/9/2019		7.49

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	7.48	
5/19/2016	7.24	
7/7/2016	7.18	
9/8/2016	7.17	
10/19/2016	7.05	
12/7/2016	7.16	
2/3/2017	7.27	
3/27/2017	7.24	
4/8/2019		6.88

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	7.1	
5/17/2016	6.88	
7/6/2016	6.75	
9/7/2016	6.95	
10/18/2016	6.9	
12/8/2016	6.55	
2/1/2017	6.81	
3/23/2017	6.8	
4/9/2019		6.72

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	7.29	
5/17/2016	7.1	
7/6/2016	7	
9/7/2016	7.07	
10/18/2016	6.81	
12/8/2016	6.85	
2/1/2017	7.05	
3/23/2017	6.97	
4/8/2019		7

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	6.36	
5/18/2016	6.21	
7/6/2016	5.88	
9/7/2016	5.77	
10/18/2016	5.9	
12/9/2016	5.73	
2/2/2017	6.29	
3/24/2017	6.32	
4/8/2019		6.26

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	7.46	
5/18/2016	7.4	
7/6/2016	7.36	
9/8/2016	7.45	
10/18/2016	7.5	
12/8/2016	7.28	
2/2/2017	7.45	
3/24/2017	7.28	
4/8/2019		6.91
6/18/2019		6.85
6/27/2019		7.05

# Prediction Limit

Constituent: pH (s.u.) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	7.2	
5/18/2016	6.96	
7/6/2016	6.89	
9/8/2016	6.93	
10/19/2016	6.84	
12/8/2016	6.54	
2/2/2017	6.72	
3/27/2017	6.56	
4/8/2019		6.72

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	14.6529	
5/17/2016	13.3	
7/6/2016	10	
9/7/2016	10	
10/18/2016	10	
12/6/2016	11	
2/2/2017	11	
3/27/2017	33	
4/9/2019		21.4



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	10.1818	
5/19/2016	9.58	
7/7/2016	9.6	
9/8/2016	9.4	
10/19/2016	9.9	
12/8/2016	14	
2/2/2017	13	
3/27/2017	12	
4/9/2019		11.3

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	16.8473	
5/18/2016	18.4	
7/6/2016	17	
9/8/2016	16	
10/18/2016	19	
12/7/2016	13	
2/2/2017	14	
3/27/2017	18	
4/9/2019		16.7

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	22.9683	
5/18/2016	19.2	
7/7/2016	31	
9/8/2016	30	
10/19/2016	32	
12/7/2016	26	
2/3/2017	27	
3/27/2017	30	
4/9/2019		50.3
6/18/2019		38.7
6/27/2019		46

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	24.8075	
5/18/2016	26.2	
7/7/2016	31	
9/8/2016	33	
10/19/2016	31	
12/7/2016	19	
2/2/2017	52	
3/27/2017	29	
4/9/2019		19.9

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	9.1183	
5/18/2016	6.88	
7/7/2016	6.8	
9/8/2016	6.8	
10/19/2016	7.5	
12/7/2016	11	
2/2/2017	9.9	
3/27/2017	8.4	
4/9/2019		11

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	6.2867	
5/19/2016	5.42	
7/7/2016	5.7	
9/8/2016	5.7	
10/19/2016	5.8	
12/7/2016	5.9	
2/3/2017	38	
3/27/2017	43	
4/8/2019		6.2

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	76.011	
5/17/2016	76.2	
7/6/2016	74	
9/7/2016	64	
10/18/2016	65	
12/8/2016	100	
2/1/2017	150	
3/23/2017	130	
4/9/2019		83.6

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	87.512	
5/17/2016	101	
7/6/2016	110	
9/7/2016	97	
10/18/2016	120	
12/8/2016	100	
2/1/2017	110	
3/23/2017	110	
4/8/2019		131
6/19/2019		108



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	90.229	
5/18/2016	100	
7/6/2016	130	
9/7/2016	130	
10/18/2016	140	
12/8/2016	140	
2/2/2017	71	
3/24/2017	68	
4/8/2019		97.1

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	26.3455	
5/19/2016	31.7	
7/6/2016	36	
9/8/2016	45	
10/18/2016	49	
12/8/2016	50	
2/2/2017	51	
3/24/2017	46	
4/8/2019		39.9

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 8/15/2019 5:12 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	61.8335	
5/19/2016	64.3	
7/6/2016	69	
9/8/2016	68	
10/19/2016	69	
12/8/2016	69	
2/2/2017	76	
3/27/2017	68	
4/8/2019		73.5

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/23/2016	182	
5/17/2016	178	
7/6/2016	135	
9/7/2016	165	
10/18/2016	113	
12/6/2016	194	
2/2/2017	160	
3/27/2017	252	
4/9/2019		213

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/24/2016	205	
5/19/2016	204	
7/7/2016	181	
9/8/2016	193	
10/19/2016	231	
12/8/2016	166	
2/2/2017	191	
3/27/2017	427	
4/9/2019		212

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/24/2016	232	
5/18/2016	245	
7/6/2016	231	
9/8/2016	252	
10/18/2016	288	
12/7/2016	220	
2/2/2017	220	
3/27/2017	393	
4/9/2019		253

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/23/2016	208	
5/18/2016	213	
7/7/2016	212	
9/8/2016	201	
10/19/2016	276	
12/7/2016	186	
2/3/2017	219	
3/27/2017	239	
4/9/2019		267

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/24/2016	110	
5/18/2016	153	
7/7/2016	151	
9/8/2016	285	
10/19/2016	314	
12/7/2016	252	
2/2/2017	138	
3/27/2017	88	
4/9/2019		167



# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/23/2016	206	
5/18/2016	212	
7/7/2016	206	
9/8/2016	214	
10/19/2016	269	
12/7/2016	199	
2/2/2017	211	
3/27/2017	324	
4/9/2019		222

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/23/2016	168	
5/19/2016	173	
7/7/2016	144	
9/8/2016	179	
10/19/2016	209	
12/7/2016	156	
2/3/2017	276	
3/27/2017	295	
4/8/2019		191

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/23/2016	379	
5/17/2016	349	
7/6/2016	346	
9/7/2016	382	
10/18/2016	461	
12/8/2016	379	
2/1/2017	511	
3/23/2017	443	
4/9/2019		371

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/23/2016	310	
5/17/2016	280	
7/6/2016	280	
9/7/2016	324	
10/18/2016	307	
12/8/2016	281	
2/1/2017	354	
3/23/2017	302	
4/8/2019		353

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
3/23/2016	253	
5/18/2016	276	
7/6/2016	239	
9/7/2016	247	
10/18/2016	233	
12/8/2016	373	
2/2/2017	236	
3/24/2017	291	
4/8/2019		295

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
3/23/2016	239	
5/19/2016	236	
7/6/2016	218	
9/8/2016	225	
10/18/2016	200	
12/8/2016	196	
2/2/2017	231	
3/24/2017	250	
4/8/2019		438

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/15/2019 5:12 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/23/2016	204	
5/19/2016	215	
7/6/2016	204	
9/8/2016	201	
10/19/2016	272	
12/8/2016	227	
2/2/2017	209	
3/27/2017	305	
4/8/2019		264

# Trend Test - Significant Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/15/2019, 6:15 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
<b>pH (s.u.)</b>	<b>GWC-8</b>	<b>-0.1429</b>	<b>-49</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GWC-20</b>	<b>6.912</b>	<b>86</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>



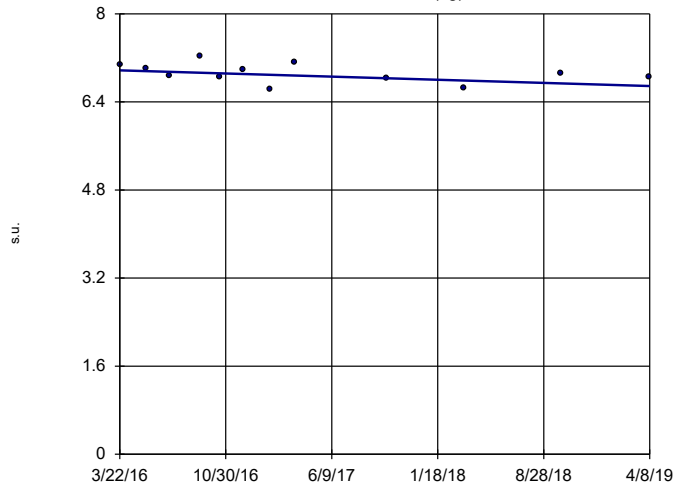
# Trend Test - All Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/15/2019, 6:15 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
pH (s.u.)	GWA-1 (bg)	-0.09363	-23	-38	No	12	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-11 (bg)	-0.07656	-27	-38	No	12	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-2 (bg)	-0.1072	-26	-38	No	12	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-3 (bg)	-0.0371	-13	-38	No	12	0	n/a	n/a	0.01	NP
pH (s.u.)	GWA-4 (bg)	0.03756	9	38	No	12	0	n/a	n/a	0.01	NP
<b>pH (s.u.)</b>	<b>GWC-8</b>	<b>-0.1429</b>	<b>-49</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GWA-1 (bg)	0.2702	33	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-11 (bg)	0.5058	35	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	0.5451	5	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-3 (bg)	7.374	19	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-4 (bg)	-18.44	-13	-38	No	12	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GWC-20</b>	<b>6.912</b>	<b>86</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

### Sen's Slope Estimator

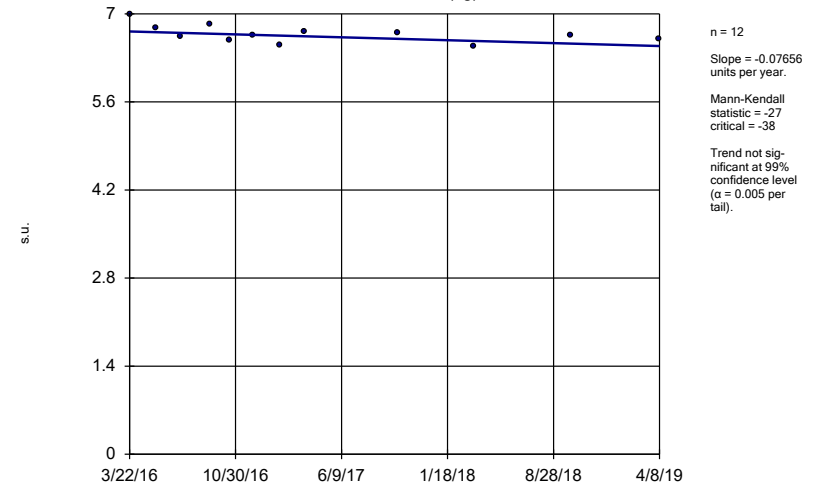
GWA-1 (bg)



Constituent: pH Analysis Run 8/15/2019 6:13 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

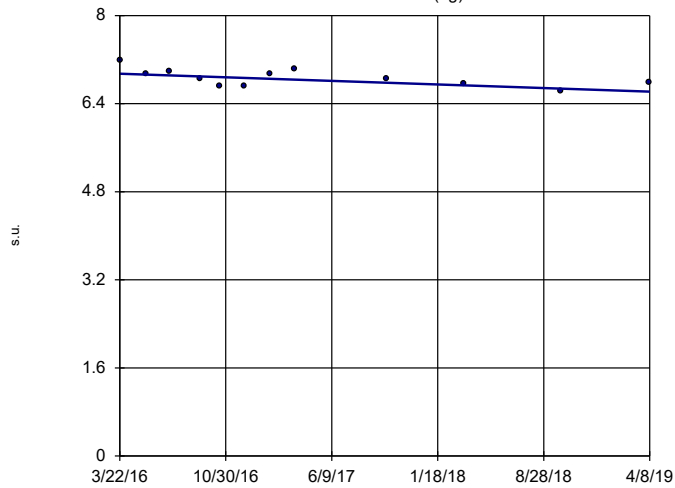
GWA-11 (bg)



Constituent: pH Analysis Run 8/15/2019 6:13 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

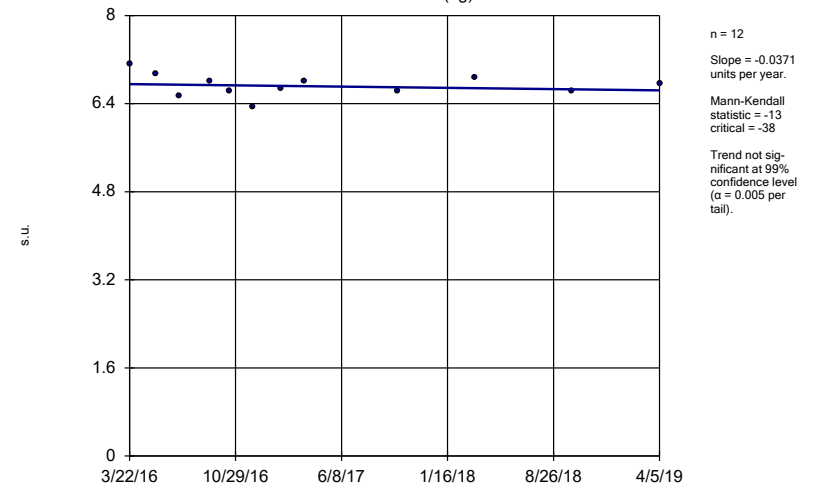
GWA-2 (bg)



Constituent: pH Analysis Run 8/15/2019 6:13 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

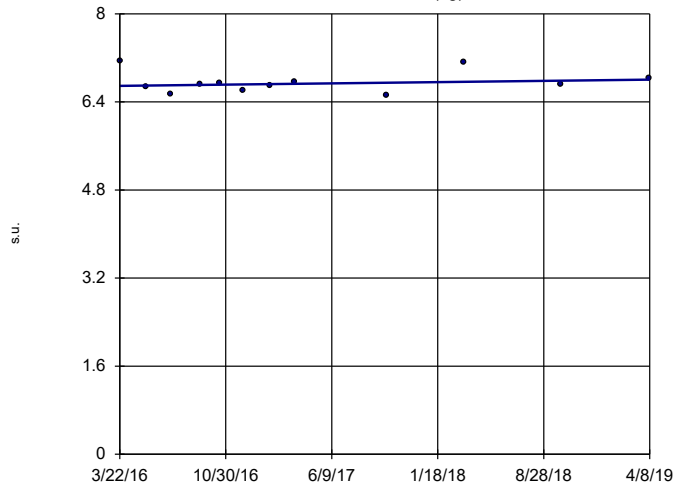
GWA-3 (bg)



Constituent: pH Analysis Run 8/15/2019 6:13 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-4 (bg)

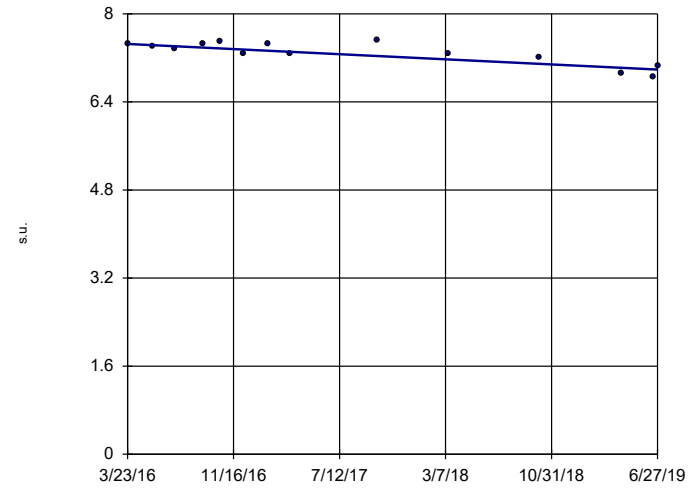


n = 12  
 Slope = 0.03756 units per year.  
 Mann-Kendall statistic = 9  
 critical = 38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 8/15/2019 6:13 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWC-8

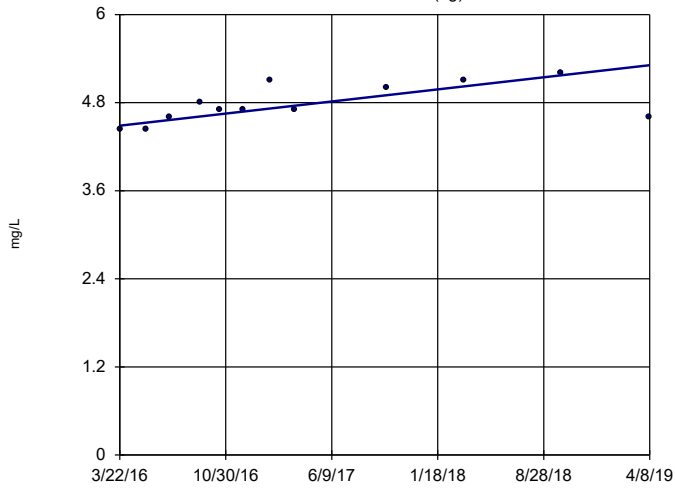


n = 14  
 Slope = -0.1429 units per year.  
 Mann-Kendall statistic = -49  
 critical = -48  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 8/15/2019 6:13 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-1 (bg)

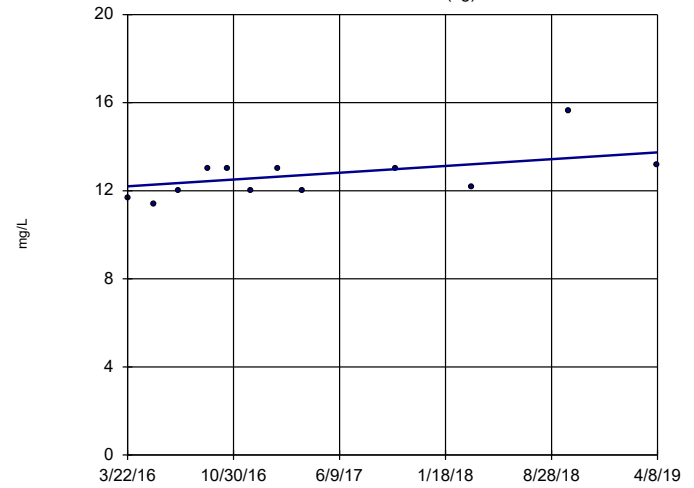


n = 12  
 Slope = 0.2702 units per year.  
 Mann-Kendall statistic = 33  
 critical = 38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 8/15/2019 6:14 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-11 (bg)

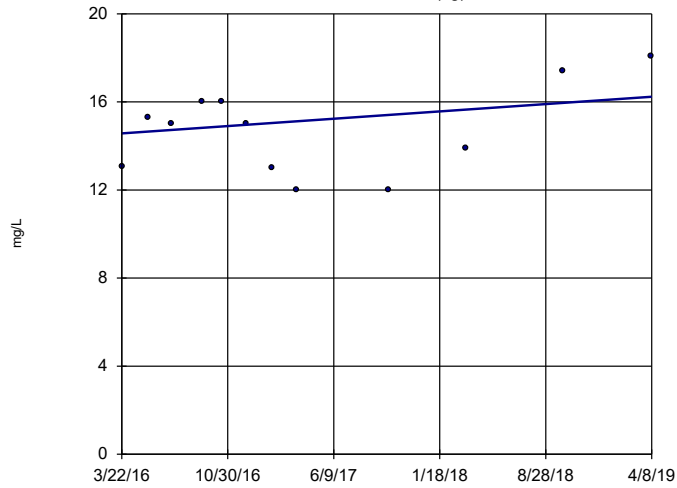


n = 12  
 Slope = 0.5058 units per year.  
 Mann-Kendall statistic = 35  
 critical = 38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 8/15/2019 6:14 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-2 (bg)



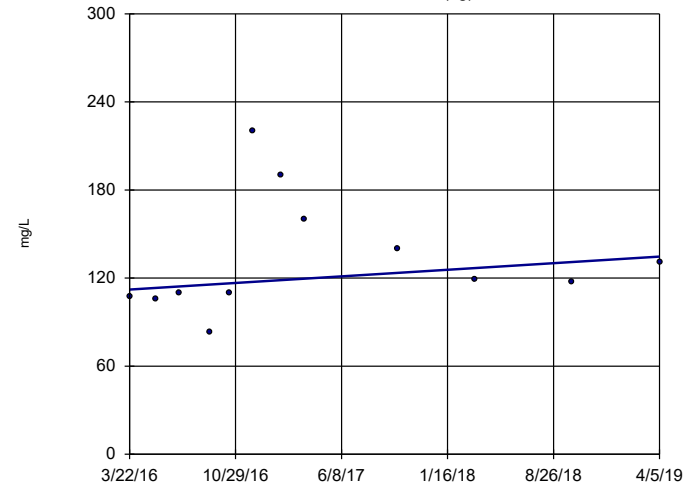
n = 12  
 Slope = 0.5451 units per year.  
 Mann-Kendall statistic = 5  
 critical = 38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 8/15/2019 6:14 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-3 (bg)



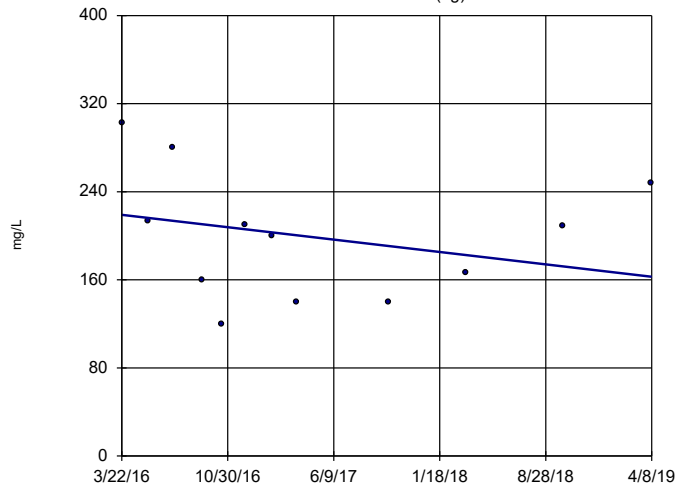
n = 12  
 Slope = 7.374 units per year.  
 Mann-Kendall statistic = 19  
 critical = 38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 8/15/2019 6:14 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-4 (bg)



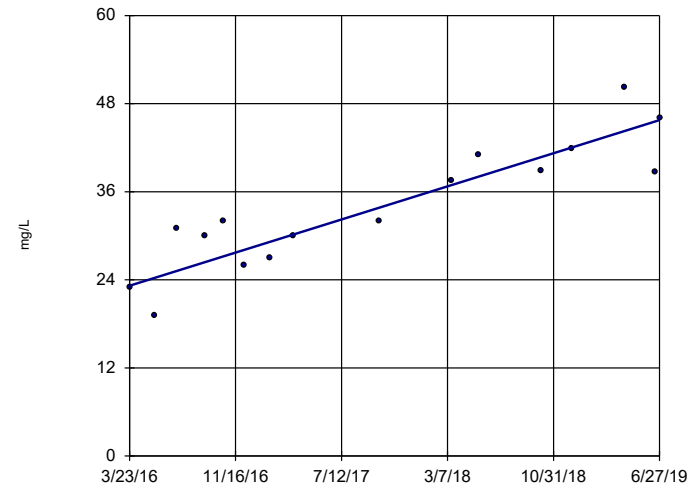
n = 12  
 Slope = -18.44 units per year.  
 Mann-Kendall statistic = -13  
 critical = -38  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 8/15/2019 6:14 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWC-20

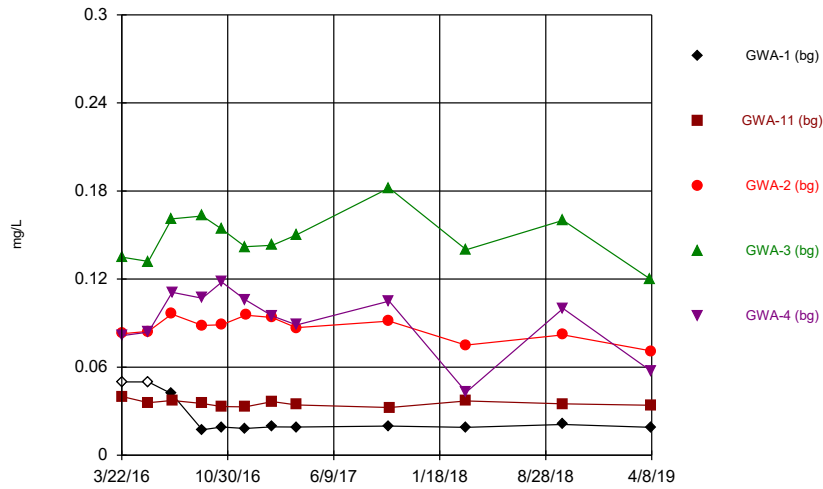


n = 16  
 Slope = 6.912 units per year.  
 Mann-Kendall statistic = 86  
 critical = 58  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 8/15/2019 6:14 PM

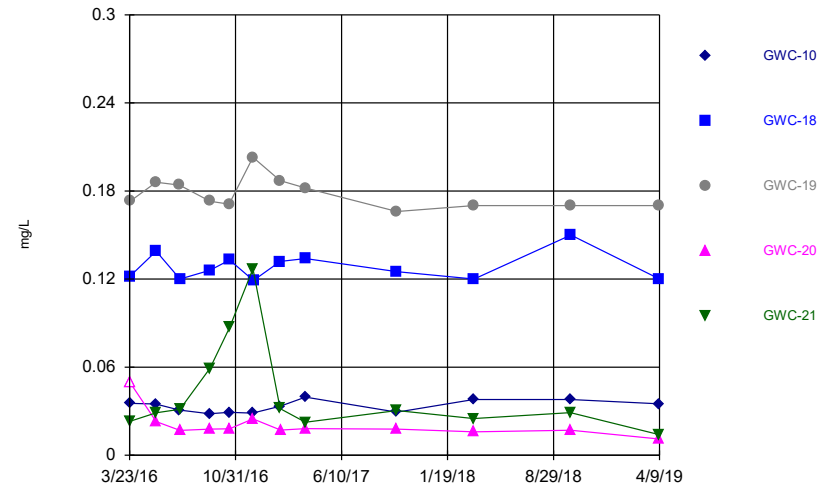
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



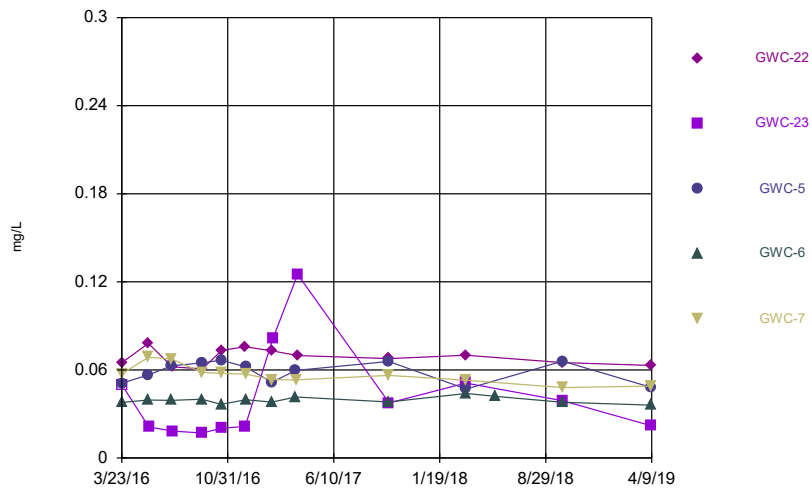
Constituent: Boron Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



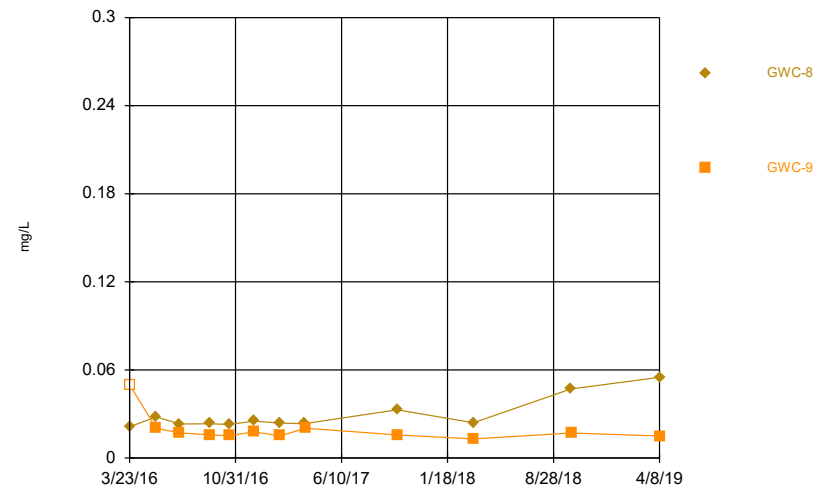
Constituent: Boron Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



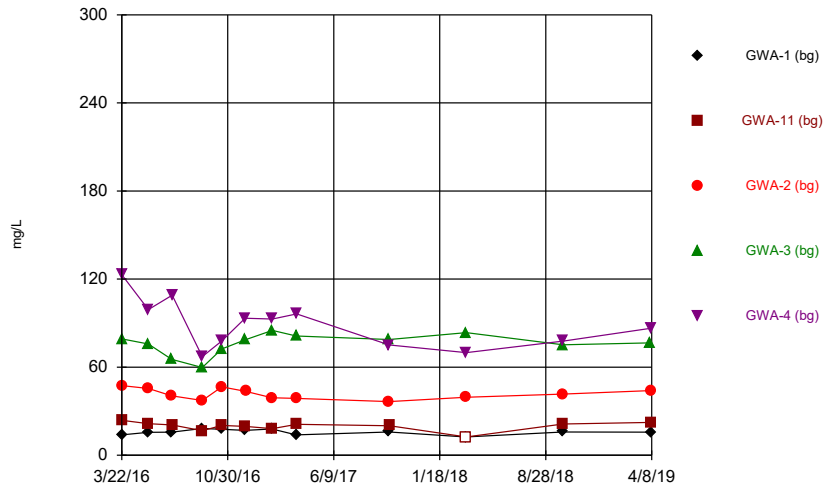
Constituent: Boron Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



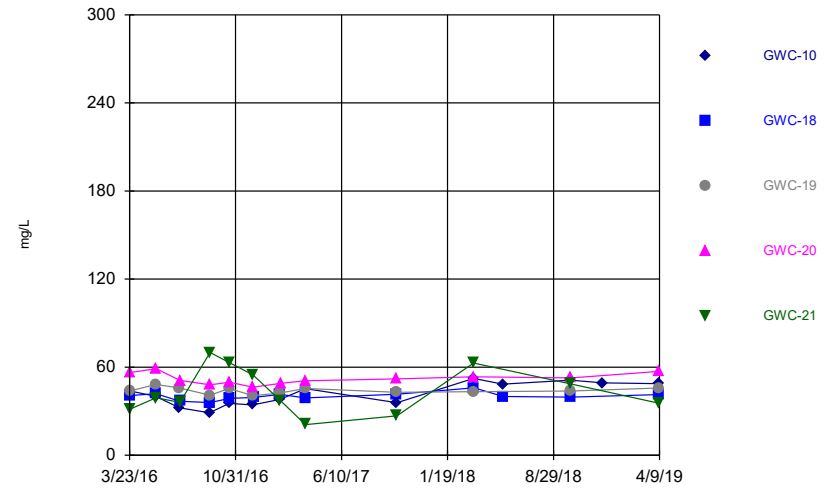
Constituent: Boron Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



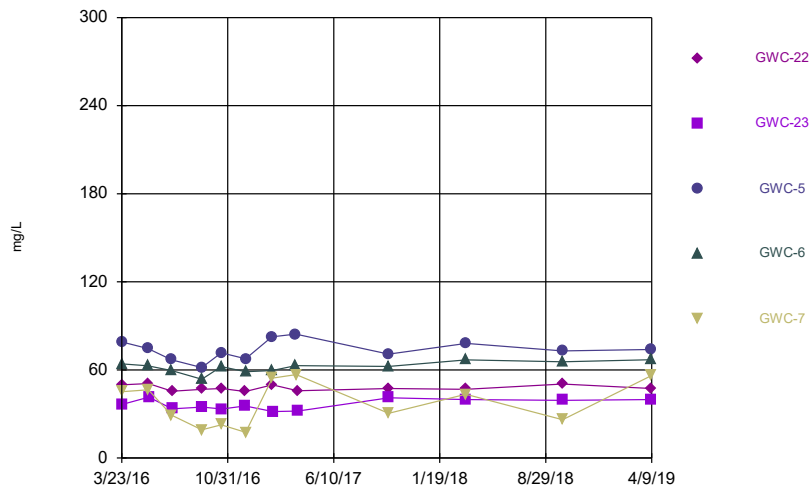
Constituent: Calcium Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



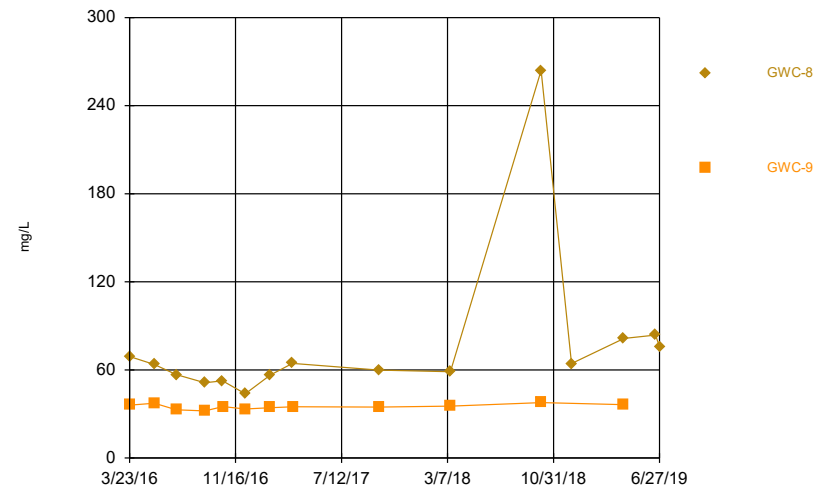
Constituent: Calcium Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



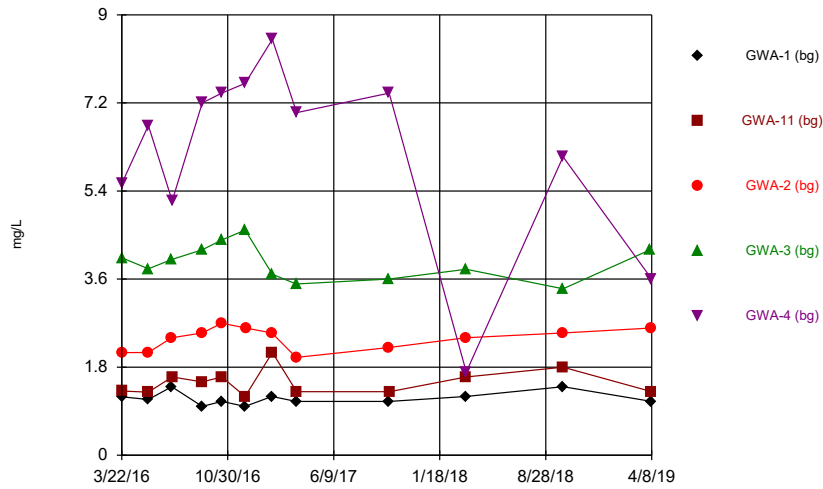
Constituent: Calcium Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



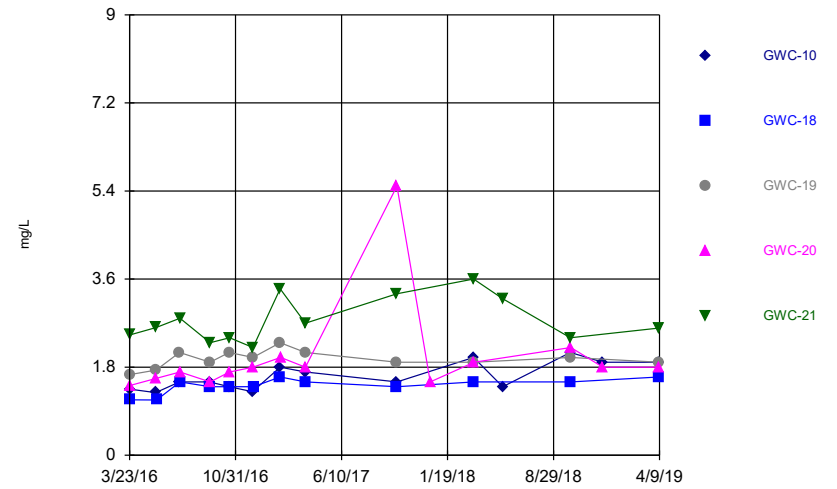
Constituent: Calcium Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



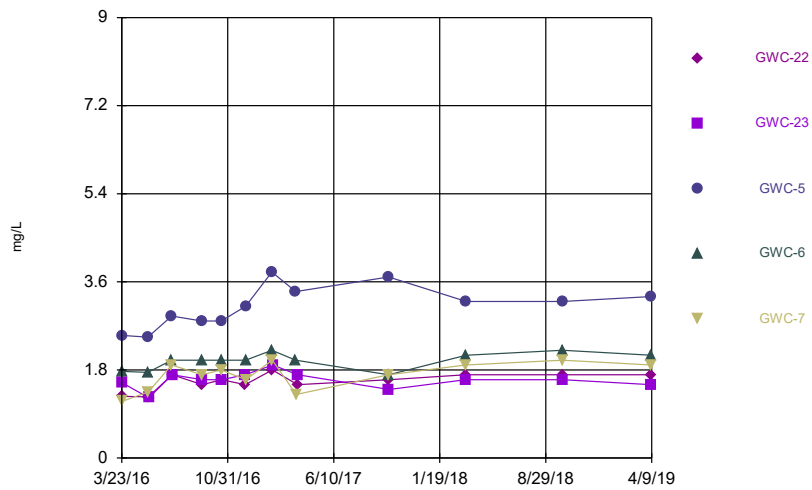
Constituent: Chloride Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



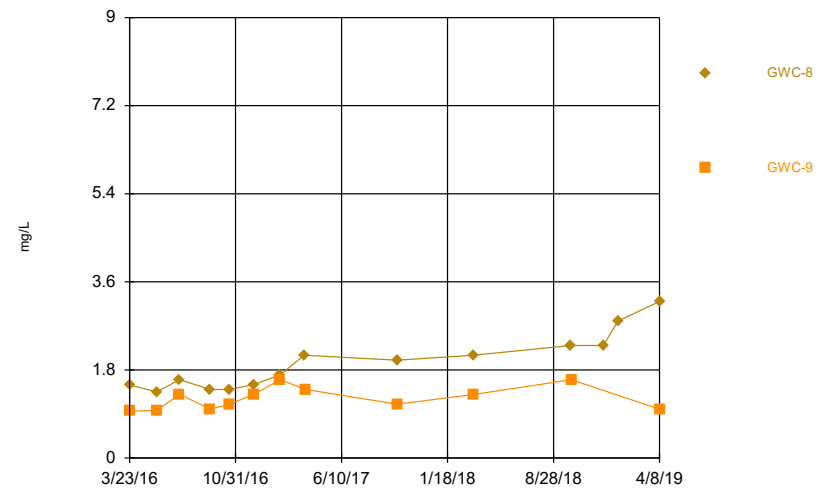
Constituent: Chloride Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



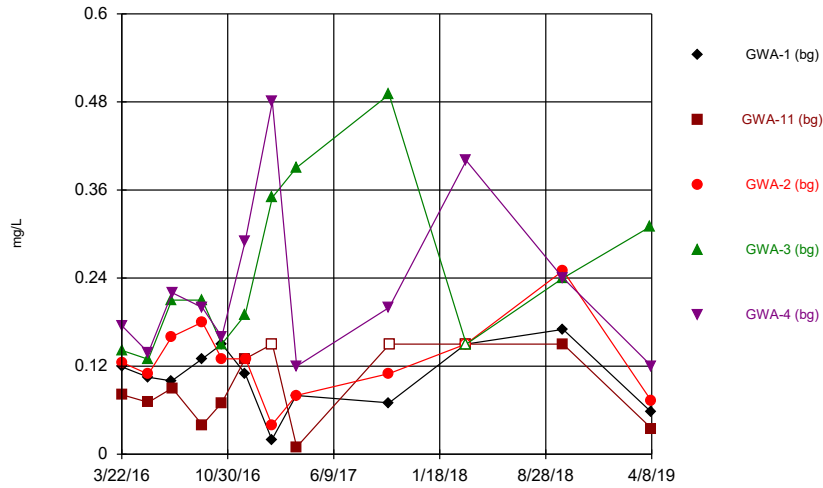
Constituent: Chloride Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



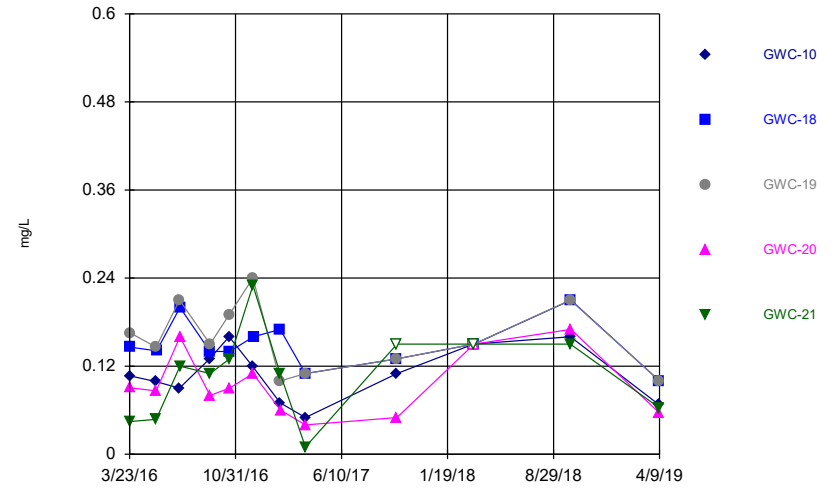
Constituent: Chloride Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



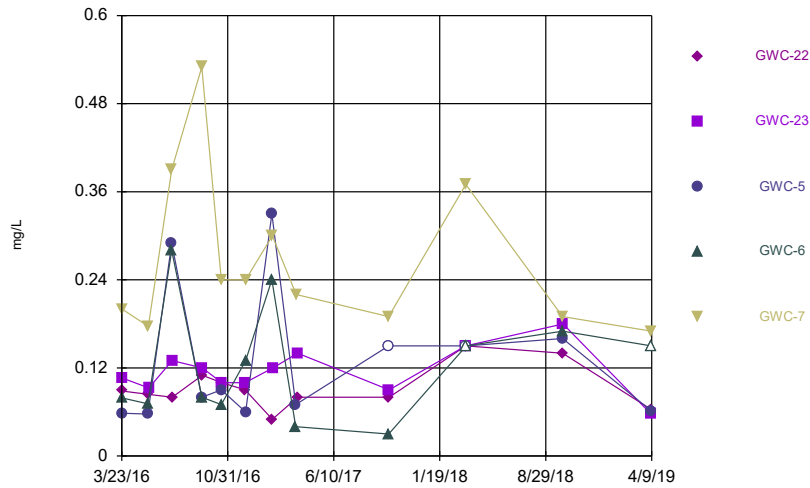
Constituent: Fluoride Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



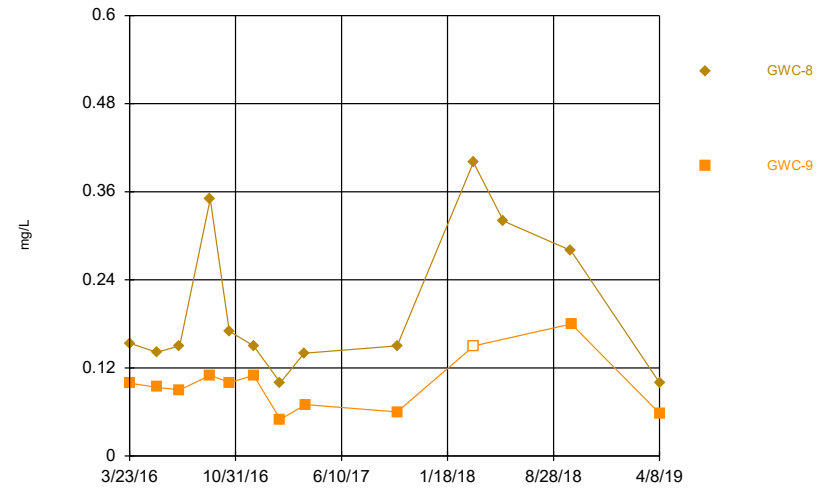
Constituent: Fluoride Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



Constituent: Fluoride Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

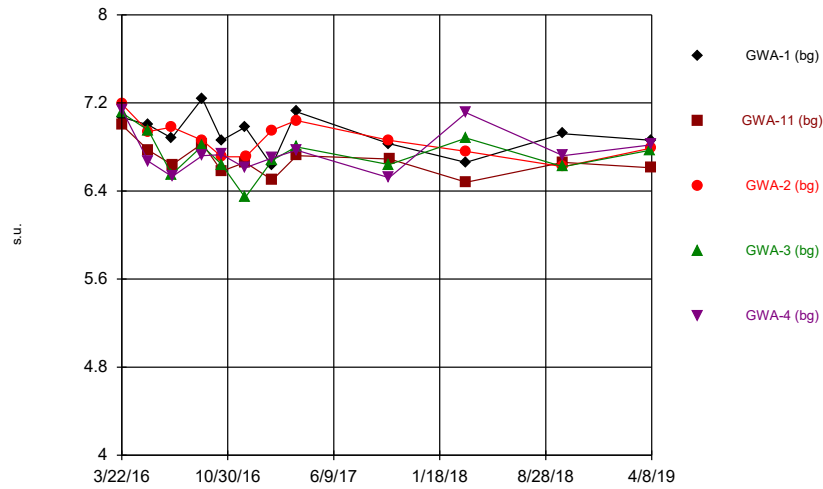
Time Series



Constituent: Fluoride Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

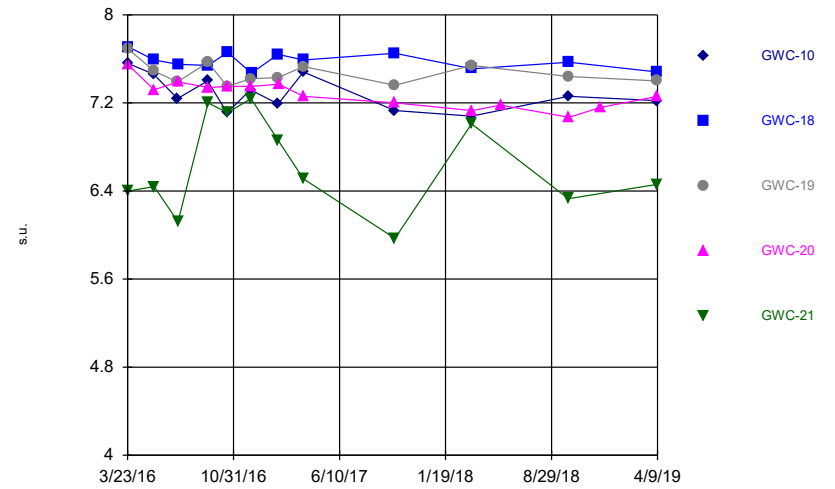


### Time Series



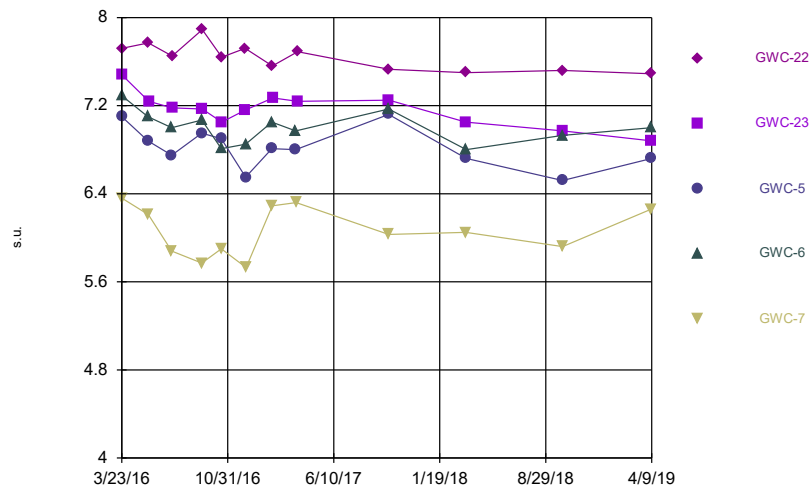
Constituent: pH Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



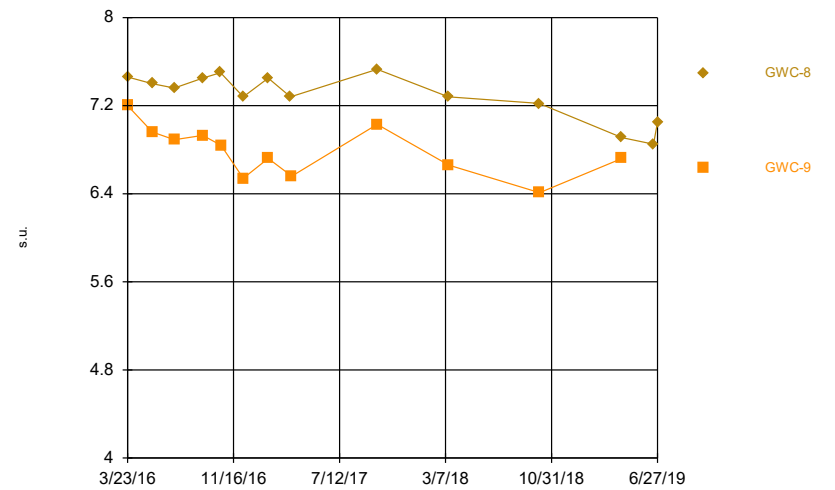
Constituent: pH Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



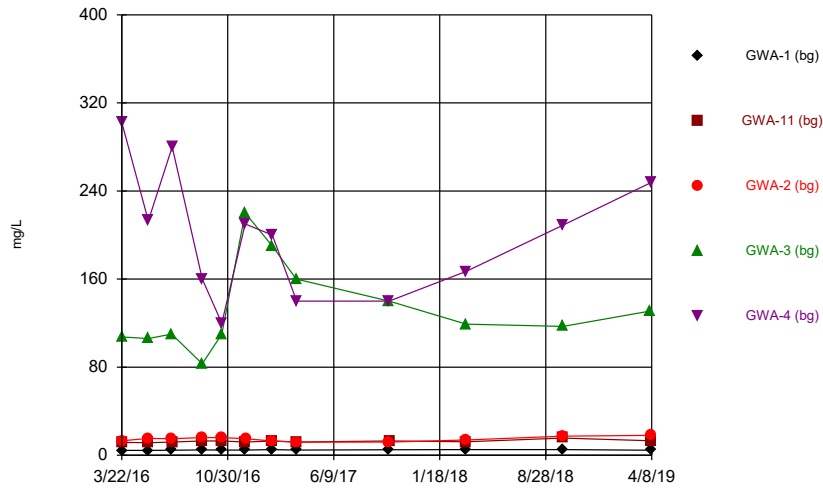
Constituent: pH Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



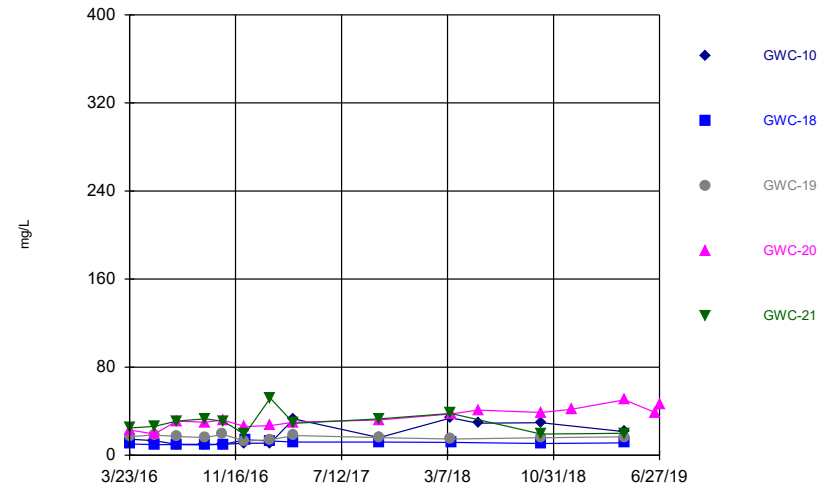
Constituent: pH Analysis Run 8/15/2019 6:21 PM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



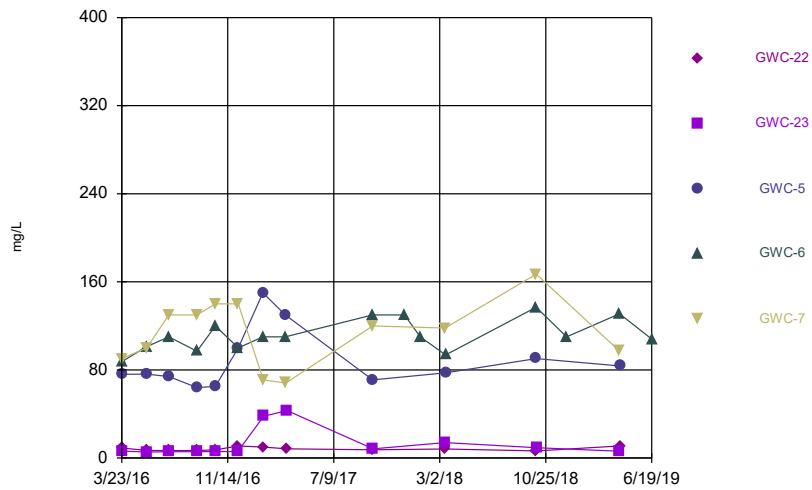
Constituent: Sulfate Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



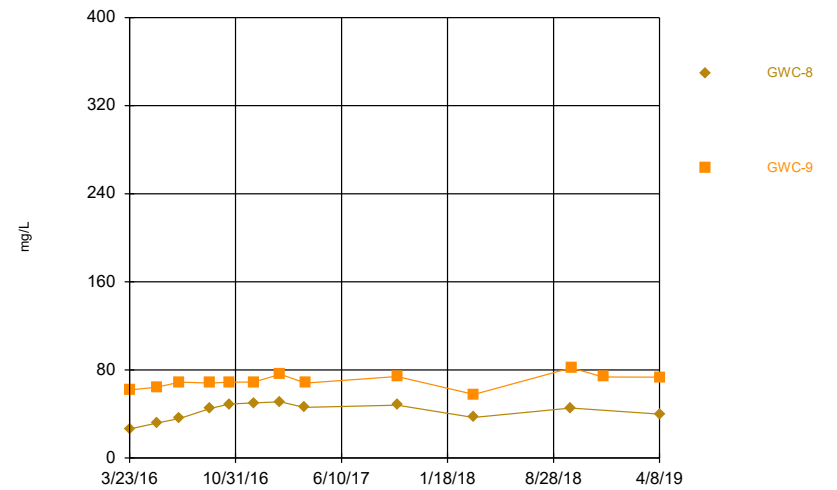
Constituent: Sulfate Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



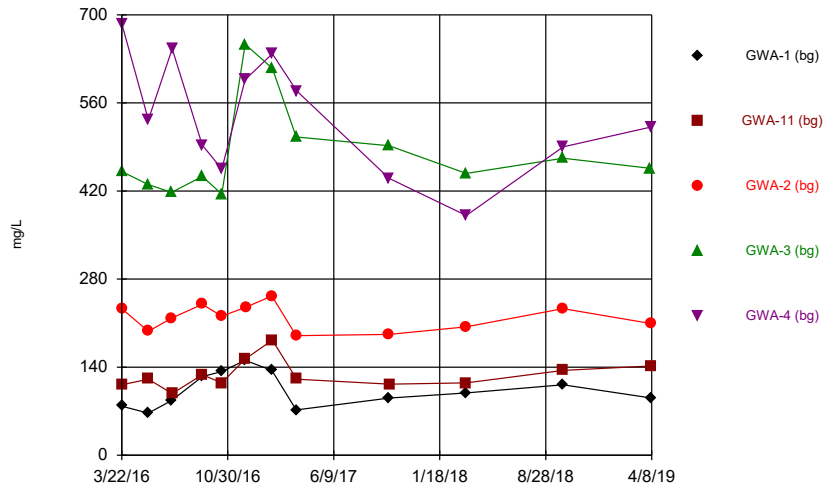
Constituent: Sulfate Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



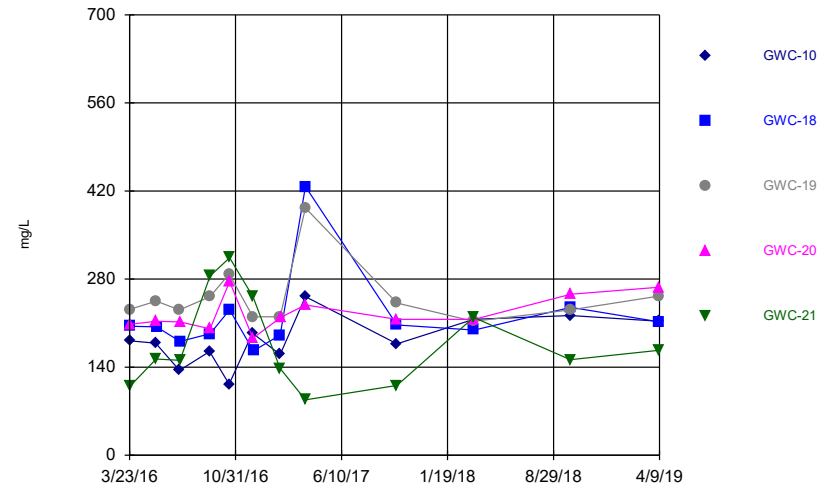
Constituent: Sulfate Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



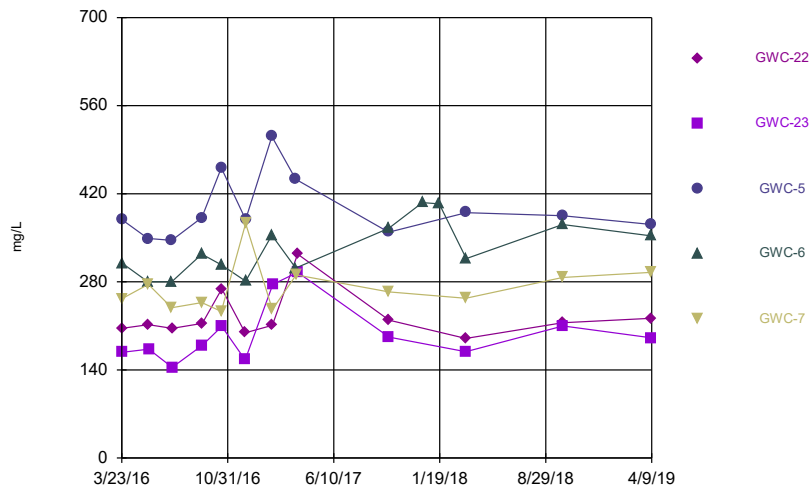
Constituent: Total Dissolved Solids Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



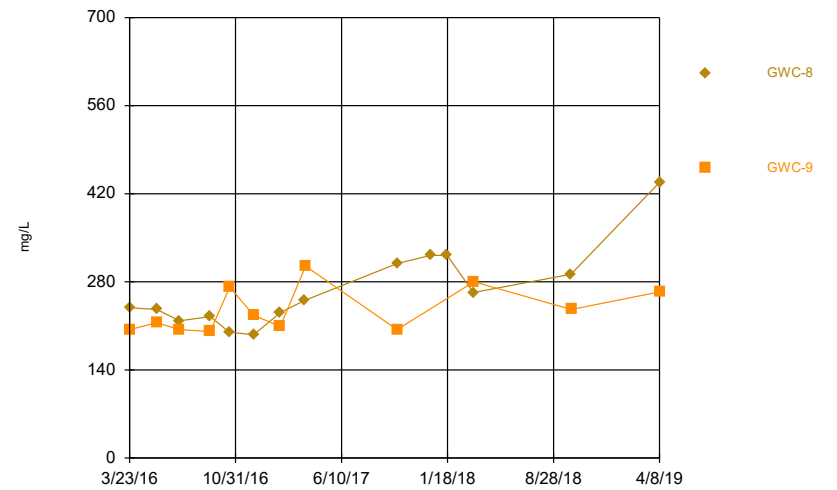
Constituent: Total Dissolved Solids Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



Constituent: Total Dissolved Solids Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



Constituent: Total Dissolved Solids Analysis Run 8/15/2019 6:21 PM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

D&O Parameters Statistical  
Analysis Package  
(SW Program)

# Outlier Summary - Huffaker Road Landfill

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/13/2019, 8:04 AM

	GWC-8 Antimony (mg/L)	GWC-7 Arsenic (mg/L)	GWC-7 Beryllium (mg/L)	GWC-7 Cadmium (mg/L)	GWC-7 Chromium (mg/L)	GWC-7 Cobalt (mg/L)	GWC-7 Copper (mg/L)	GWC-7 Nickel (mg/L)	GWC-7 Zinc (mg/L)
5/9/2007		0.038 (o)	0.28 (o)	0.023 (o)	0.11 (o)	6.5 (o)	0.44 (o)	18 (o)	45 (o)
7/6/2007						2.1 (o)		5.9 (o)	16 (o)
8/28/2007						1.4 (o)			11 (o)
11/6/2007	0.0064 (o)					1.1 (o)			

# Date Ranges

Date: 8/14/2019 1:50 PM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Barium (mg/L)

- GWA-2 background:4/13/2010-10/4/2018
- GWC-19 background:4/13/2010-10/4/2018
- GWC-22 background:4/13/2010-10/4/2018
- GWC-6 background:3/23/2016-10/4/2018
- GWC-7 background:4/3/2012-10/4/2018
- GWC-9 background:10/4/2011-10/5/2018

Cobalt (mg/L)

- GWC-7 background:3/12/2013-10/4/2018

Nickel (mg/L)

- GWC-7 background:3/12/2013-10/4/2018

Zinc (mg/L)

- GWC-7 background:3/12/2013-10/4/2018

**Table C-2**  
 Detection Monitoring Prediction Limit Comparison - D&O Parameters  
 Plant Hammond, Floyd County, Georgia

Parameter	Well ID	Upper PL	Lower PL	Apr 5-8, 2019	Jun 17-18, 2019
Purpose of Sampling Event:				Detection	Verification
Antimony (mg/L)	GWC-10	0.003	-	ND	--
Antimony (mg/L)	GWC-18	0.003	-	ND	--
Antimony (mg/L)	GWC-19	0.003	-	ND	--
Antimony (mg/L)	GWC-20	0.003	-	ND	--
Antimony (mg/L)	GWC-21	0.003	-	ND	--
Antimony (mg/L)	GWC-22	0.003	-	ND	--
Antimony (mg/L)	GWC-23	0.003	-	ND	--
Antimony (mg/L)	GWC-5	0.003	-	ND	--
Antimony (mg/L)	GWC-6	0.003	-	ND	--
Antimony (mg/L)	GWC-7	0.003	-	ND	--
Antimony (mg/L)	GWC-8	0.003	-	ND	--
Antimony (mg/L)	GWC-9	0.003	-	ND	--
Arsenic (mg/L)	GWC-10	0.005	-	ND	--
Arsenic (mg/L)	GWC-18	0.005	-	0.00063 J	--
Arsenic (mg/L)	GWC-19	0.005	-	ND	--
Arsenic (mg/L)	GWC-20	0.005	-	ND	--
Arsenic (mg/L)	GWC-21	0.005	-	0.0018 J	--
Arsenic (mg/L)	GWC-22	0.005	-	ND	--
Arsenic (mg/L)	GWC-23	0.005	-	0.00034 J	--
Arsenic (mg/L)	GWC-5	0.005	-	ND	--
Arsenic (mg/L)	GWC-6	0.005	-	ND	--
Arsenic (mg/L)	GWC-7	0.088	-	0.0057	--
Arsenic (mg/L)	GWC-8	0.005	-	0.0015 J	--
Arsenic (mg/L)	GWC-9	0.005	-	ND	--
Barium (mg/L)	GWC-10	0.19	-	0.17	--
Barium (mg/L)	GWC-18	0.090	-	0.081	--
Barium (mg/L)	GWC-19	0.17	-	0.15	--
Barium (mg/L)	GWC-20	0.14	-	0.13	--
Barium (mg/L)	GWC-21	0.24	-	0.05	--
Barium (mg/L)	GWC-22	0.12	-	0.094	--
Barium (mg/L)	GWC-23	0.085	-	0.059	--
Barium (mg/L)	GWC-5	0.13	-	0.067	--
Barium (mg/L)	GWC-6	0.20	-	0.15	--
Barium (mg/L)	GWC-7	0.41	-	0.24	--
Barium (mg/L)	GWC-8	0.12	-	0.13	0.17
Barium (mg/L)	GWC-9	0.073	-	0.058	--
Beryllium (mg/L)	GWC-10	0.003	-	ND	--
Beryllium (mg/L)	GWC-18	0.003	-	ND	--
Beryllium (mg/L)	GWC-19	0.003	-	ND	--
Beryllium (mg/L)	GWC-20	0.003	-	ND	--
Beryllium (mg/L)	GWC-21	0.003	-	ND	--
Beryllium (mg/L)	GWC-22	0.003	-	ND	--
Beryllium (mg/L)	GWC-23	0.003	-	ND	--
Beryllium (mg/L)	GWC-5	0.003	-	ND	--
Beryllium (mg/L)	GWC-6	0.003	-	ND	--
Beryllium (mg/L)	GWC-7	0.137	-	0.000058 J	--
Beryllium (mg/L)	GWC-8	0.003	-	ND	--
Beryllium (mg/L)	GWC-9	0.003	-	ND	--
Cadmium (mg/L)	GWC-10	0.001	-	ND	--
Cadmium (mg/L)	GWC-18	0.001	-	ND	--
Cadmium (mg/L)	GWC-19	0.001	-	ND	--
Cadmium (mg/L)	GWC-20	0.001	-	ND	--
Cadmium (mg/L)	GWC-21	0.001	-	ND	--
Cadmium (mg/L)	GWC-22	0.001	-	ND	--
Cadmium (mg/L)	GWC-23	0.001	-	ND	--
Cadmium (mg/L)	GWC-5	0.0015	-	ND	--
Cadmium (mg/L)	GWC-6	0.001	-	ND	--

**Table C-2**  
 Detection Monitoring Prediction Limit Comparison - D&O Parameters  
 Plant Hammond, Floyd County, Georgia

Parameter	Well ID	Upper PL	Lower PL	Apr 5-8, 2019	Jun 17-18, 2019
Purpose of Sampling Event:				Detection	Verification
Cadmium (mg/L)	GWC-7	0.0081	-	ND	--
Cadmium (mg/L)	GWC-8	0.001	-	ND	--
Cadmium (mg/L)	GWC-9	0.001	-	ND	--
Chromium (mg/L)	GWC-10	0.01	-	ND	--
Chromium (mg/L)	GWC-18	0.01	-	ND	--
Chromium (mg/L)	GWC-19	0.01	-	ND	--
Chromium (mg/L)	GWC-20	0.01	-	ND	--
Chromium (mg/L)	GWC-21	0.01	-	ND	--
Chromium (mg/L)	GWC-22	0.01	-	0.0023 J	--
Chromium (mg/L)	GWC-23	0.01	-	ND	--
Chromium (mg/L)	GWC-5	0.01	-	ND	--
Chromium (mg/L)	GWC-6	0.01	-	ND	--
Chromium (mg/L)	GWC-7	0.01	-	ND	--
Chromium (mg/L)	GWC-8	0.01	-	ND	--
Chromium (mg/L)	GWC-9	0.01	-	ND	--
Cobalt (mg/L)	GWC-10	0.01	-	ND	--
Cobalt (mg/L)	GWC-18	0.01	-	ND	--
Cobalt (mg/L)	GWC-19	0.01	-	ND	--
Cobalt (mg/L)	GWC-20	0.01	-	ND	--
Cobalt (mg/L)	GWC-21	0.01	-	0.0023 J	--
Cobalt (mg/L)	GWC-22	0.01	-	ND	--
Cobalt (mg/L)	GWC-23	0.01	-	0.00046 J	--
Cobalt (mg/L)	GWC-5	0.01	-	ND	--
Cobalt (mg/L)	GWC-6	0.01	-	0.00022 J	--
Cobalt (mg/L)	GWC-7	0.080	-	0.0086 J	--
Cobalt (mg/L)	GWC-8	0.01	-	0.0017 J	--
Cobalt (mg/L)	GWC-9	0.01	-	0.00041 J	--
Copper (mg/L)	GWC-10	0.025	-	ND	--
Copper (mg/L)	GWC-18	0.025	-	ND	--
Copper (mg/L)	GWC-19	0.025	-	0.0014 J	--
Copper (mg/L)	GWC-20	0.025	-	ND	--
Copper (mg/L)	GWC-21	0.025	-	ND	--
Copper (mg/L)	GWC-22	0.025	-	ND	--
Copper (mg/L)	GWC-23	0.025	-	0.0005 J	--
Copper (mg/L)	GWC-5	0.025	-	ND	--
Copper (mg/L)	GWC-6	0.025	-	ND	--
Copper (mg/L)	GWC-7	0.025	-	0.00025 J	--
Copper (mg/L)	GWC-8	0.025	-	ND	--
Copper (mg/L)	GWC-9	0.025	-	ND	--
Lead (mg/L)	GWC-10	0.005	-	ND	--
Lead (mg/L)	GWC-18	0.005	-	ND	--
Lead (mg/L)	GWC-19	0.005	-	ND	--
Lead (mg/L)	GWC-20	0.005	-	ND	--
Lead (mg/L)	GWC-21	0.005	-	ND	--
Lead (mg/L)	GWC-22	0.005	-	ND	--
Lead (mg/L)	GWC-23	0.005	-	0.00018 J	--
Lead (mg/L)	GWC-5	0.005	-	0.00039 J	--
Lead (mg/L)	GWC-6	0.005	-	ND	--
Lead (mg/L)	GWC-7	0.005	-	ND	--
Lead (mg/L)	GWC-8	0.005	-	ND	--
Lead (mg/L)	GWC-9	0.005	-	ND	--
Nickel (mg/L)	GWC-10	0.01	-	ND	--
Nickel (mg/L)	GWC-18	0.01	-	ND	--
Nickel (mg/L)	GWC-19	0.01	-	ND	--
Nickel (mg/L)	GWC-20	0.01	-	ND	--
Nickel (mg/L)	GWC-21	0.01	-	0.0048 J	--
Nickel (mg/L)	GWC-22	0.01	-	ND	--



**Table C-2**  
 Detection Monitoring Prediction Limit Comparison - D&O Parameters  
 Plant Hammond, Floyd County, Georgia

Parameter	Well ID	Upper PL	Lower PL	Apr 5-8, 2019	Jun 17-18, 2019
Purpose of Sampling Event:				Detection	Verification
Nickel (mg/L)	GWC-23	0.01	-	0.0011 J	--
Nickel (mg/L)	GWC-5	0.01	-	0.00098 J	--
Nickel (mg/L)	GWC-6	0.01	-	0.00032 J	--
Nickel (mg/L)	GWC-7	0.33	-	0.030	--
Nickel (mg/L)	GWC-8	0.01	-	0.00064 J	--
Nickel (mg/L)	GWC-9	0.01	-	0.0021 J	--
Selenium (mg/L)	GWC-10	0.01	-	ND	--
Selenium (mg/L)	GWC-18	0.01	-	ND	--
Selenium (mg/L)	GWC-19	0.01	-	ND	--
Selenium (mg/L)	GWC-20	0.01	-	ND	--
Selenium (mg/L)	GWC-21	0.01	-	ND	--
Selenium (mg/L)	GWC-22	0.01	-	ND	--
Selenium (mg/L)	GWC-23	0.01	-	ND	--
Selenium (mg/L)	GWC-5	0.01	-	ND	--
Selenium (mg/L)	GWC-6	0.01	-	ND	--
Selenium (mg/L)	GWC-7	0.01	-	ND	--
Selenium (mg/L)	GWC-8	0.01	-	ND	--
Selenium (mg/L)	GWC-9	0.01	-	ND	--
Silver (mg/L)	GWC-10	0.01	-	ND	--
Silver (mg/L)	GWC-18	0.01	-	ND	--
Silver (mg/L)	GWC-19	0.01	-	ND	--
Silver (mg/L)	GWC-20	0.01	-	ND	--
Silver (mg/L)	GWC-21	0.01	-	ND	--
Silver (mg/L)	GWC-22	0.01	-	ND	--
Silver (mg/L)	GWC-23	0.01	-	ND	--
Silver (mg/L)	GWC-5	0.01	-	ND	--
Silver (mg/L)	GWC-6	0.01	-	ND	--
Silver (mg/L)	GWC-7	0.01	-	ND	--
Silver (mg/L)	GWC-8	0.01	-	ND	--
Silver (mg/L)	GWC-9	0.01	-	ND	--
Thallium (mg/L)	GWC-10	0.001	-	ND	--
Thallium (mg/L)	GWC-18	0.001	-	ND	--
Thallium (mg/L)	GWC-19	0.001	-	ND	--
Thallium (mg/L)	GWC-20	0.001	-	ND	--
Thallium (mg/L)	GWC-21	0.001	-	ND	--
Thallium (mg/L)	GWC-22	0.001	-	ND	--
Thallium (mg/L)	GWC-23	0.001	-	ND	--
Thallium (mg/L)	GWC-5	0.001	-	ND	--
Thallium (mg/L)	GWC-6	0.001	-	ND	--
Thallium (mg/L)	GWC-7	0.001	-	ND	--
Thallium (mg/L)	GWC-8	0.001	-	ND	--
Thallium (mg/L)	GWC-9	0.001	-	ND	--
Vanadium (mg/L)	GWC-10	0.01	-	ND	--
Vanadium (mg/L)	GWC-18	0.01	-	ND	--
Vanadium (mg/L)	GWC-19	0.01	-	ND	--
Vanadium (mg/L)	GWC-20	0.01	-	ND	--
Vanadium (mg/L)	GWC-21	0.01	-	ND	--
Vanadium (mg/L)	GWC-22	0.01	-	ND	--
Vanadium (mg/L)	GWC-23	0.01	-	0.00017 J	--
Vanadium (mg/L)	GWC-5	0.01	-	ND	--
Vanadium (mg/L)	GWC-6	0.01	-	ND	--
Vanadium (mg/L)	GWC-7	0.01	-	ND	--
Vanadium (mg/L)	GWC-8	0.01	-	ND	--
Vanadium (mg/L)	GWC-9	0.01	-	ND	--
Zinc (mg/L)	GWC-10	0.01	-	ND	--
Zinc (mg/L)	GWC-18	0.01	-	0.0037 J	--
Zinc (mg/L)	GWC-19	0.013	-	ND	--

**Table C-2**  
 Detection Monitoring Prediction Limit Comparison - D&O Parameters  
 Plant Hammond, Floyd County, Georgia

Parameter	Well ID	Upper PL	Lower PL	Apr 5-8, 2019	Jun 17-18, 2019
Purpose of Sampling Event:				Detection	Verification
Zinc (mg/L)	GWC-20	0.01	-	ND	--
Zinc (mg/L)	GWC-21	0.01	-	0.0041 J	--
Zinc (mg/L)	GWC-22	0.01	-	ND	--
Zinc (mg/L)	GWC-23	0.01	-	0.0016 J	--
Zinc (mg/L)	GWC-5	0.01	-	ND	--
Zinc (mg/L)	GWC-6	0.01	-	0.0013 J	--
Zinc (mg/L)	GWC-7	0.61	-	0.051	--
Zinc (mg/L)	GWC-8	0.01	-	0.0012 J	--
Zinc (mg/L)	GWC-9	0.01	-	0.0016 J	--

Notes:

- = Not applicable

-- = Indicates the parameter was not analyzed as part of the verification event.

J = Indicates that analyte was estimated and detected between the laboratory Method Detection Limit and Reporting Limit (RL).

mg/L = milligrams per liter

ND = Indicates the parameter was not detected above the laboratory MDL.

PL = Prediction Limit

s.u. = standard unit

TDS = Total Dissolved Solids

(1) Shaded values indicate an exceedance of the statistically derived PL.

(2) The pH value presented was recorded at the time of sample collection in the field. This is the one which the field result is compared to both the upper and lower PL.

# Prediction Limit - Significant Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/16/2019, 8:44 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
<b>Barium (mg/L)</b>	<b>GWC-8</b>	<b>0.1227</b>	<b>n/a</b>	<b>6/18/2019</b>	<b>0.17</b>	<b>Yes</b>	<b>31</b>	<b>0</b>	<b>sqrt(x)</b>	<b>0.0002926</b>	<b>Param Intra 1 of 2</b>

# Prediction Limit - All Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/16/2019, 8:44 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-10	0.003	n/a	4/9/2019	0.003ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-18	0.003	n/a	4/9/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-19	0.003	n/a	4/9/2019	0.003ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	4/9/2019	0.003ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-21	0.003	n/a	4/9/2019	0.003ND	No	30	100	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	4/9/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-23	0.003	n/a	4/8/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5	0.003	n/a	4/9/2019	0.003ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-6	0.003	n/a	4/8/2019	0.003ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-7	0.003	n/a	4/8/2019	0.003ND	No	31	96.77	n/a	0.001905	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-8	0.003	n/a	4/8/2019	0.003ND	No	30	96.67	n/a	0.002008	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	4/8/2019	0.003ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-10	0.005	n/a	4/9/2019	0.005ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-18	0.005	n/a	4/9/2019	0.00063	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-19	0.005	n/a	4/9/2019	0.005ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-20	0.005	n/a	4/9/2019	0.005ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-21	0.005	n/a	4/9/2019	0.0018	No	30	86.67	n/a	0.002008	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.005	n/a	4/9/2019	0.005ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-23	0.005	n/a	4/8/2019	0.00034	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5	0.005	n/a	4/9/2019	0.005ND	No	32	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-6	0.005	n/a	4/8/2019	0.005ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-7	0.0088	n/a	4/8/2019	0.0057	No	30	46.67	n/a	0.002008	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-8	0.005	n/a	4/8/2019	0.0015	No	31	87.1	n/a	0.001905	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.005	n/a	4/8/2019	0.005ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWC-10	0.1912	n/a	4/9/2019	0.17	No	33	0	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-18	0.08974	n/a	4/9/2019	0.081	No	32	0	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-19	0.1697	n/a	4/9/2019	0.15	No	23	0	x^4	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-20	0.1358	n/a	4/9/2019	0.13	No	31	0	x^3	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-21	0.2404	n/a	4/9/2019	0.05	No	30	0	ln(x)	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-22	0.121	n/a	4/9/2019	0.094	No	23	0	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-23	0.08464	n/a	4/8/2019	0.059	No	32	0	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-5	0.1274	n/a	4/9/2019	0.067	No	32	0	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-6	0.1978	n/a	4/8/2019	0.15	No	11	0	No	0.0002926	Param Intra 1 of 2
Barium (mg/L)	GWC-7	0.4063	n/a	4/8/2019	0.24	No	19	0	sqrt(x)	0.0002926	Param Intra 1 of 2
<b>Barium (mg/L)</b>	<b>GWC-8</b>	<b>0.1227</b>	<b>n/a</b>	<b>6/18/2019</b>	<b>0.17</b>	<b>Yes</b>	<b>31</b>	<b>0</b>	<b>sqrt(x)</b>	<b>0.0002926</b>	<b>Param Intra 1 of 2</b>
Barium (mg/L)	GWC-9	0.07338	n/a	4/8/2019	0.058	No	20	0	No	0.0002926	Param Intra 1 of 2
Beryllium (mg/L)	GWC-10	0.003	n/a	4/9/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-18	0.003	n/a	4/9/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-19	0.003	n/a	4/9/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-20	0.003	n/a	4/9/2019	0.003ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-21	0.003	n/a	4/9/2019	0.003ND	No	30	100	n/a	0.002008	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-22	0.003	n/a	4/9/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-23	0.003	n/a	4/8/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5	0.003	n/a	4/9/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-6	0.003	n/a	4/8/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-7	0.137	n/a	4/8/2019	0.000058	No	30	23.33	ln(x)	0.0002926	Param Intra 1 of 2
Beryllium (mg/L)	GWC-8	0.003	n/a	4/8/2019	0.003ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-9	0.003	n/a	4/8/2019	0.003ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-10	0.001	n/a	4/9/2019	0.001ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-18	0.001	n/a	4/9/2019	0.001ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2

## Prediction Limit - All Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/16/2019, 8:44 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
Cadmium (mg/L)	GWC-19	0.001	n/a	4/9/2019	0.001ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-20	0.001	n/a	4/9/2019	0.001ND	No	31	96.77	n/a	0.001905	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-21	0.001	n/a	4/9/2019	0.001ND	No	30	93.33	n/a	0.002008	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-22	0.001	n/a	4/9/2019	0.001ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-23	0.001	n/a	4/8/2019	0.001ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5	0.0015	n/a	4/9/2019	0.001ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-6	0.001	n/a	4/8/2019	0.001ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-7	0.0081	n/a	4/8/2019	0.001ND	No	30	80	n/a	0.002008	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-8	0.001	n/a	4/8/2019	0.001ND	No	31	96.77	n/a	0.001905	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-9	0.001	n/a	4/8/2019	0.001ND	No	32	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-10	0.01	n/a	4/9/2019	0.01ND	No	32	90.63	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-18	0.01	n/a	4/9/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-19	0.01	n/a	4/9/2019	0.01ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.01	n/a	4/9/2019	0.01ND	No	31	90.32	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.01	n/a	4/9/2019	0.01ND	No	30	96.67	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.01	n/a	4/9/2019	0.0023	No	32	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-23	0.01	n/a	4/8/2019	0.01ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5	0.01	n/a	4/9/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-6	0.01	n/a	4/8/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-7	0.01	n/a	4/8/2019	0.01ND	No	30	83.33	n/a	0.002008	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-8	0.01	n/a	4/8/2019	0.01ND	No	31	90.32	n/a	0.001905	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.01	n/a	4/8/2019	0.01ND	No	32	90.63	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-10	0.01	n/a	4/9/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-18	0.01	n/a	4/9/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-19	0.01	n/a	4/9/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-20	0.01	n/a	4/9/2019	0.01ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-21	0.01	n/a	4/9/2019	0.0023	No	30	63.33	n/a	0.002008	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-22	0.01	n/a	4/9/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-23	0.01	n/a	4/8/2019	0.00046	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-5	0.01	n/a	4/9/2019	0.01ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6	0.01	n/a	4/8/2019	0.00022	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-7	0.08032	n/a	4/8/2019	0.0086	No	17	0	No	0.0002926	Param Intra 1 of 2
Cobalt (mg/L)	GWC-8	0.01	n/a	4/8/2019	0.0017	No	31	96.77	n/a	0.001905	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-9	0.01	n/a	4/8/2019	0.00041	No	32	93.75	n/a	0.001803	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-10	0.025	n/a	4/9/2019	0.025ND	No	27	96.3	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-18	0.025	n/a	4/9/2019	0.025ND	No	27	92.59	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-19	0.025	n/a	4/9/2019	0.0014	No	27	88.89	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-20	0.025	n/a	4/9/2019	0.025ND	No	26	96.15	n/a	0.002667	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-21	0.025	n/a	4/9/2019	0.025ND	No	25	76	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-22	0.025	n/a	4/9/2019	0.025ND	No	27	96.3	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-23	0.025	n/a	4/8/2019	0.0005	No	27	85.19	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5	0.025	n/a	4/9/2019	0.025ND	No	27	88.89	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6	0.025	n/a	4/8/2019	0.025ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-7	0.025	n/a	4/8/2019	0.00025	No	25	80	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-8	0.025	n/a	4/8/2019	0.025ND	No	26	100	n/a	0.002667	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-9	0.025	n/a	4/8/2019	0.025ND	No	27	96.3	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-10	0.005	n/a	4/9/2019	0.005ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-18	0.005	n/a	4/9/2019	0.005ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-19	0.005	n/a	4/9/2019	0.005ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.005	n/a	4/9/2019	0.005ND	No	31	96.77	n/a	0.001905	NP Intra (NDs) 1 of 2

## Prediction Limit - All Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/16/2019, 8:44 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
Lead (mg/L)	GWC-21	0.005	n/a	4/9/2019	0.005ND	No	30	96.67	n/a	0.002008	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.005	n/a	4/9/2019	0.005ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-23	0.005	n/a	4/8/2019	0.00018	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5	0.005	n/a	4/9/2019	0.00039	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-6	0.005	n/a	4/8/2019	0.005ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-7	0.005	n/a	4/8/2019	0.005ND	No	31	83.87	n/a	0.001905	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-8	0.005	n/a	4/8/2019	0.005ND	No	31	96.77	n/a	0.001905	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.005	n/a	4/8/2019	0.005ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-10	0.01	n/a	4/9/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-18	0.01	n/a	4/9/2019	0.01ND	No	27	85.19	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-19	0.01	n/a	4/9/2019	0.01ND	No	27	88.89	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-20	0.01	n/a	4/9/2019	0.01ND	No	26	92.31	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-21	0.0104	n/a	4/9/2019	0.0048	No	25	24	x^(1/3)	0.0002926	Param Intra 1 of 2
Nickel (mg/L)	GWC-22	0.01	n/a	4/9/2019	0.01ND	No	27	96.3	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-23	0.01	n/a	4/8/2019	0.0011	No	27	81.48	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5	0.01	n/a	4/9/2019	0.00098	No	27	92.59	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-6	0.01	n/a	4/8/2019	0.00032	No	27	96.3	n/a	0.002502	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-7	0.3321	n/a	4/8/2019	0.03	No	12	0	No	0.0002926	Param Intra 1 of 2
Nickel (mg/L)	GWC-8	0.01	n/a	4/8/2019	0.00064	No	26	96.15	n/a	0.002667	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-9	0.01	n/a	4/8/2019	0.0021	No	27	66.67	n/a	0.002502	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-10	0.01	n/a	4/9/2019	0.01ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-18	0.01	n/a	4/9/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-19	0.01	n/a	4/9/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.01	n/a	4/9/2019	0.01ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.01	n/a	4/9/2019	0.01ND	No	30	93.33	n/a	0.002008	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.01	n/a	4/9/2019	0.01ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-23	0.01	n/a	4/8/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-5	0.01	n/a	4/9/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-6	0.01	n/a	4/8/2019	0.01ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-7	0.01	n/a	4/8/2019	0.01ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-8	0.01	n/a	4/8/2019	0.01ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.01	n/a	4/8/2019	0.01ND	No	32	96.88	n/a	0.001803	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-10	0.01	n/a	4/9/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-18	0.01	n/a	4/9/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-19	0.01	n/a	4/9/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-20	0.01	n/a	4/9/2019	0.01ND	No	26	100	n/a	0.002667	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-21	0.01	n/a	4/9/2019	0.01ND	No	25	96	n/a	0.002832	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-22	0.01	n/a	4/9/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-23	0.01	n/a	4/8/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-5	0.01	n/a	4/9/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-6	0.01	n/a	4/8/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-7	0.01	n/a	4/8/2019	0.01ND	No	26	100	n/a	0.002667	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-8	0.01	n/a	4/8/2019	0.01ND	No	26	100	n/a	0.002667	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-9	0.01	n/a	4/8/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-10	0.001	n/a	4/9/2019	0.001ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-18	0.001	n/a	4/9/2019	0.001ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-19	0.001	n/a	4/9/2019	0.001ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-20	0.001	n/a	4/9/2019	0.001ND	No	30	100	n/a	0.002008	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-21	0.001	n/a	4/9/2019	0.001ND	No	29	100	n/a	0.002172	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-22	0.001	n/a	4/9/2019	0.001ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2

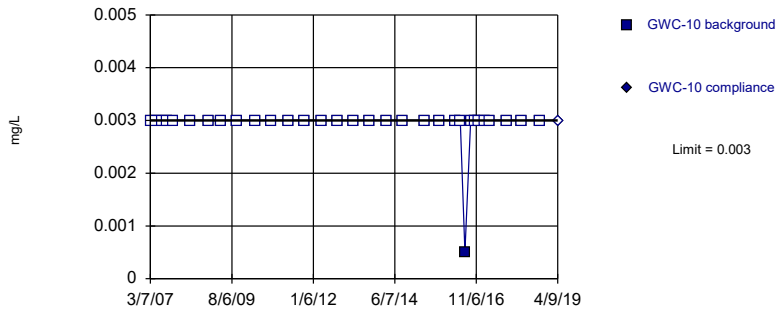
# Prediction Limit - All Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/16/2019, 8:44 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Thallium (mg/L)	GWC-23	0.001	n/a	4/8/2019	0.001ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5	0.001	n/a	4/9/2019	0.001ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-6	0.001	n/a	4/8/2019	0.001ND	No	32	100	n/a	0.001803	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-7	0.001	n/a	4/8/2019	0.001ND	No	30	96.67	n/a	0.002008	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-8	0.001	n/a	4/8/2019	0.001ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-9	0.001	n/a	4/8/2019	0.001ND	No	31	100	n/a	0.001905	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-10	0.01	n/a	4/9/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-18	0.01	n/a	4/9/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-19	0.01	n/a	4/9/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.01	n/a	4/9/2019	0.01ND	No	26	100	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.01	n/a	4/9/2019	0.01ND	No	25	92	n/a	0.002832	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-22	0.01	n/a	4/9/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-23	0.01	n/a	4/8/2019	0.00017	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5	0.01	n/a	4/9/2019	0.01ND	No	27	96.3	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6	0.01	n/a	4/8/2019	0.01ND	No	27	100	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-7	0.01	n/a	4/8/2019	0.01ND	No	26	80.77	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-8	0.01	n/a	4/8/2019	0.01ND	No	26	100	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.01	n/a	4/8/2019	0.01ND	No	27	96.3	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-10	0.01	n/a	4/9/2019	0.01ND	No	27	77.78	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-18	0.01	n/a	4/9/2019	0.0037	No	27	70.37	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-19	0.013	n/a	4/9/2019	0.01ND	No	27	59.26	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-20	0.01	n/a	4/9/2019	0.01ND	No	26	80.77	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-21	0.00993	n/a	4/9/2019	0.0041	No	25	12	No	0.0002926	Param Intra 1 of 2
Zinc (mg/L)	GWC-22	0.01	n/a	4/9/2019	0.01ND	No	27	81.48	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-23	0.01	n/a	4/8/2019	0.0016	No	27	55.56	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5	0.01	n/a	4/9/2019	0.01ND	No	27	55.56	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-6	0.01	n/a	4/8/2019	0.0013	No	27	74.07	n/a	0.002502	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-7	0.6123	n/a	4/8/2019	0.051	No	12	0	No	0.0002926	Param Intra 1 of 2
Zinc (mg/L)	GWC-8	0.01	n/a	4/8/2019	0.0012	No	26	73.08	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-9	0.01	n/a	4/8/2019	0.0016	No	27	66.67	n/a	0.002502	NP Intra (NDs) 1 of 2

Within Limit

### Prediction Limit Intrawell Non-parametric



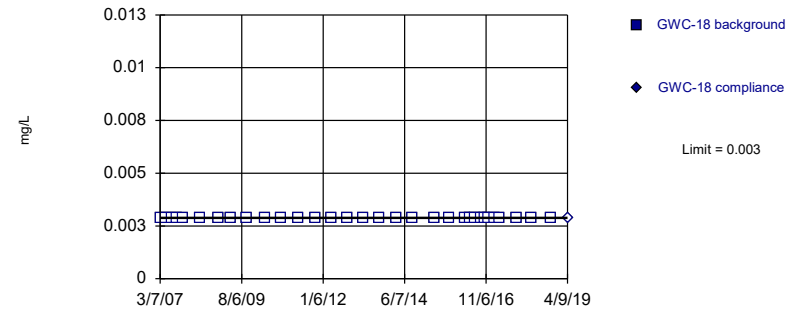
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



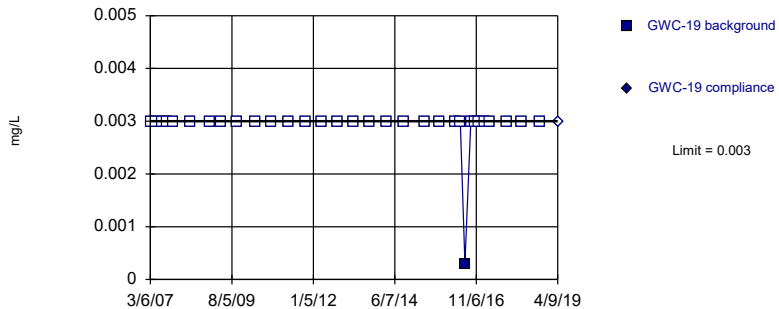
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



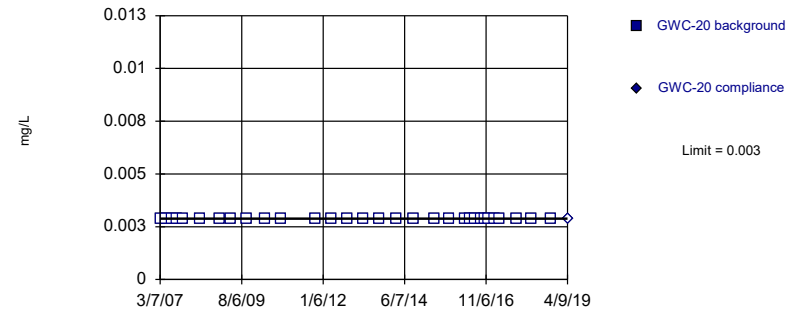
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

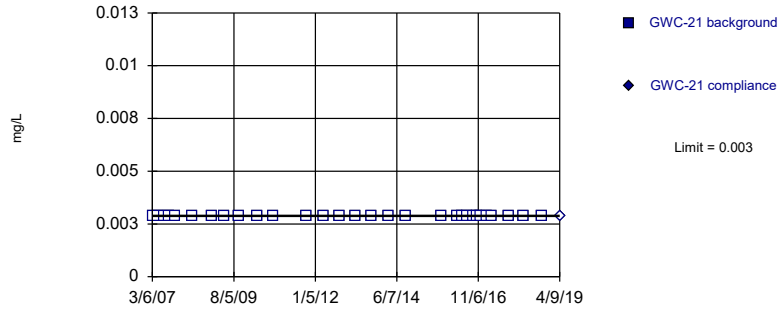
Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill



Within Limit

### Prediction Limit Intrawell Non-parametric



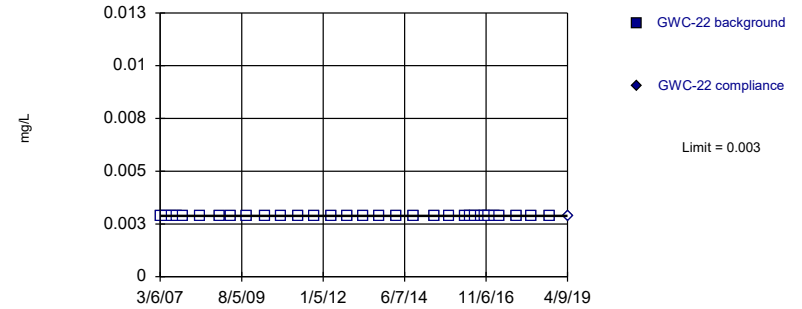
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 30) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



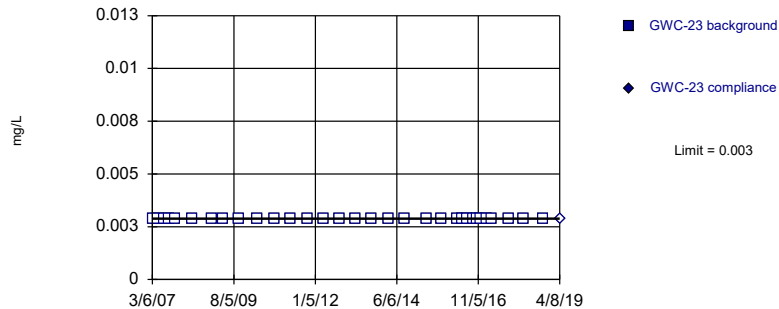
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



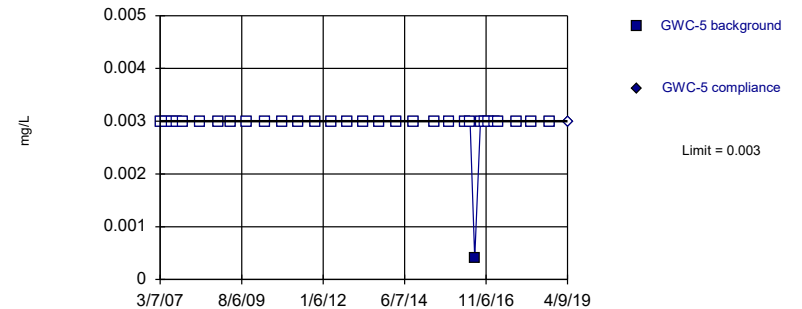
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



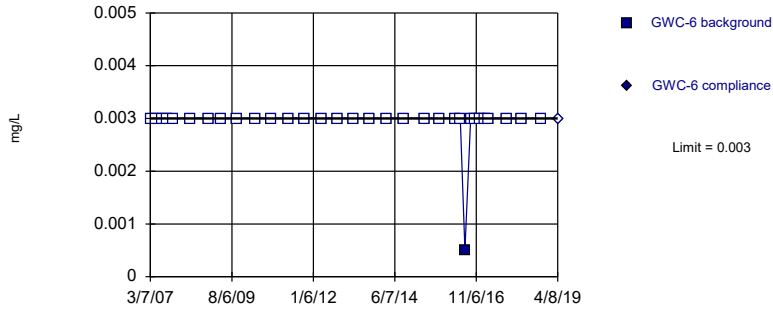
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



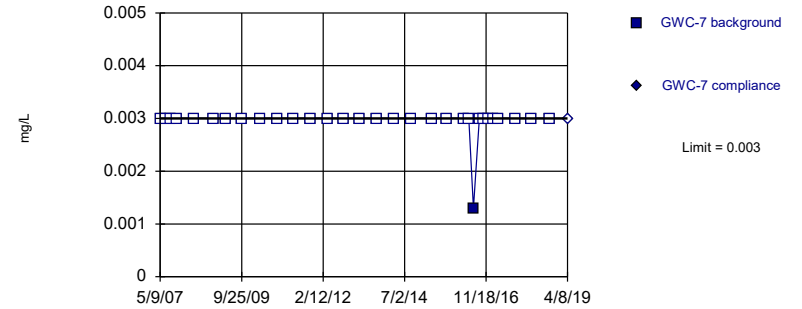
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



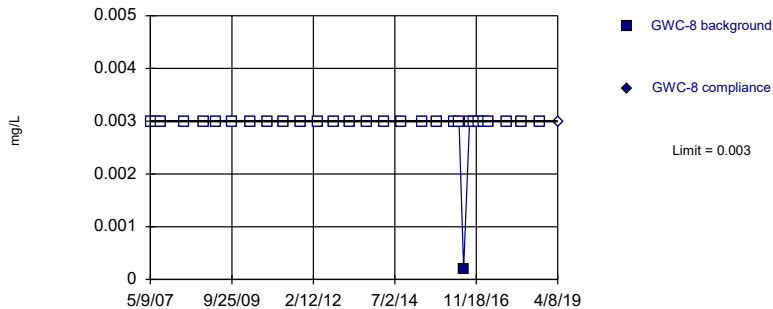
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



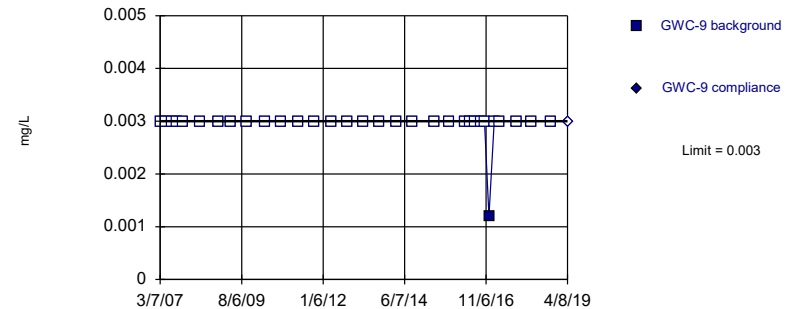
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



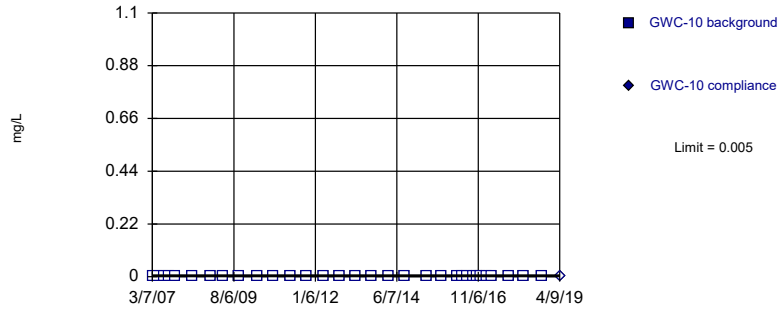
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



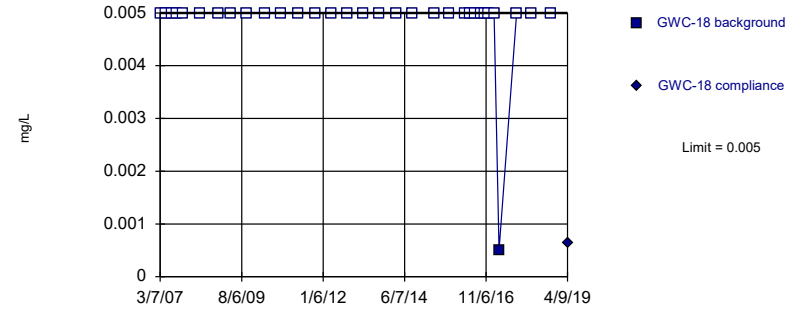
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



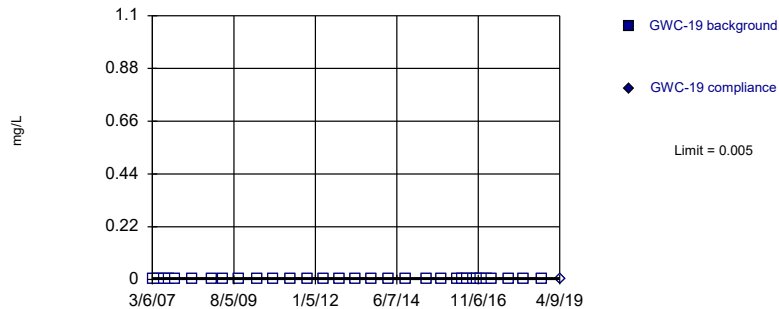
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



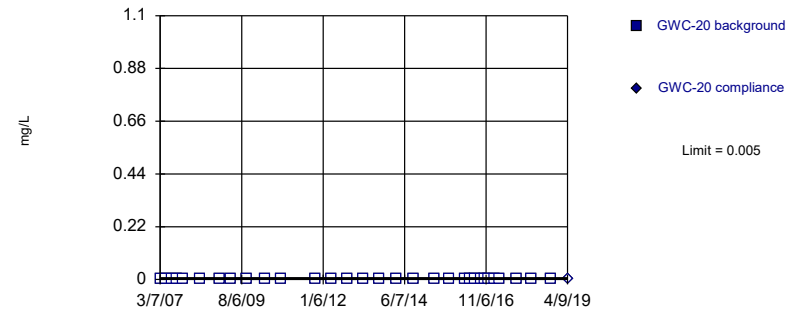
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



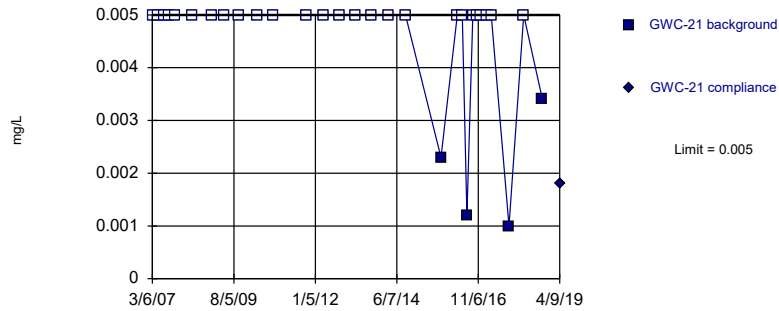
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



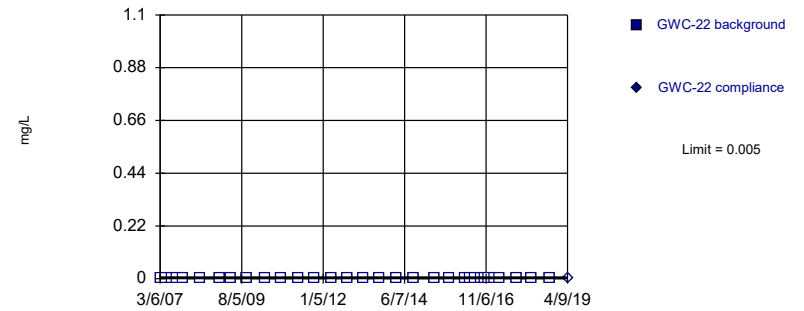
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 86.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



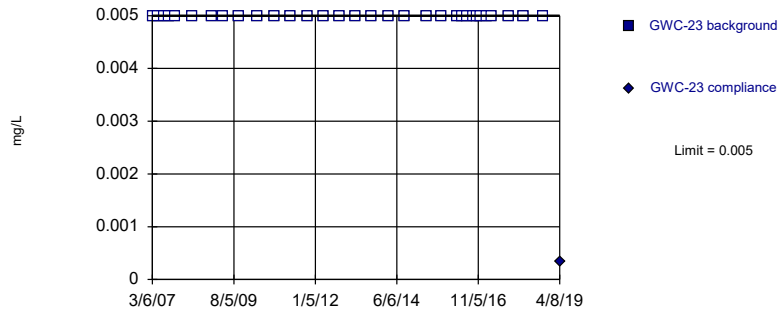
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



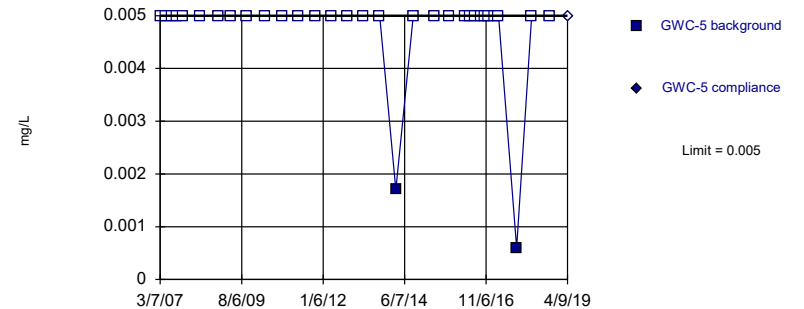
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



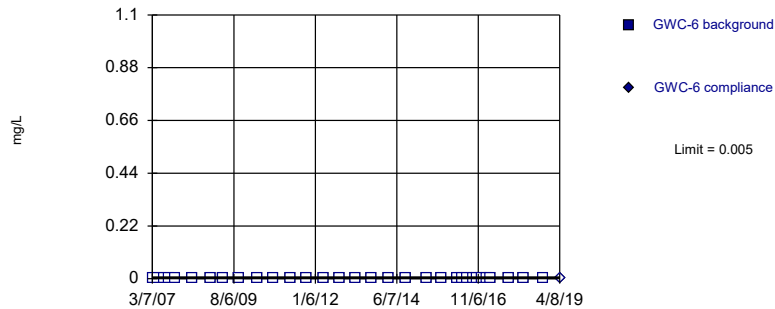
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



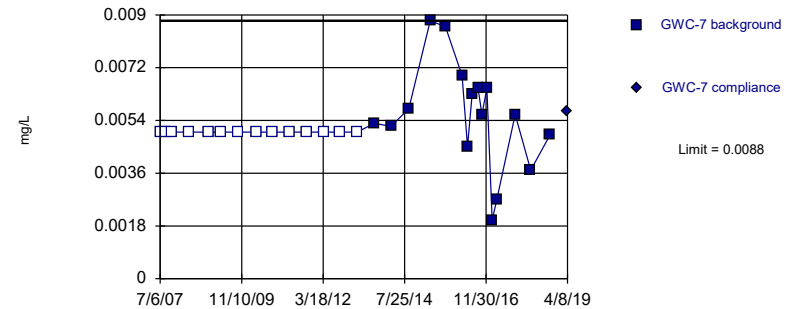
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



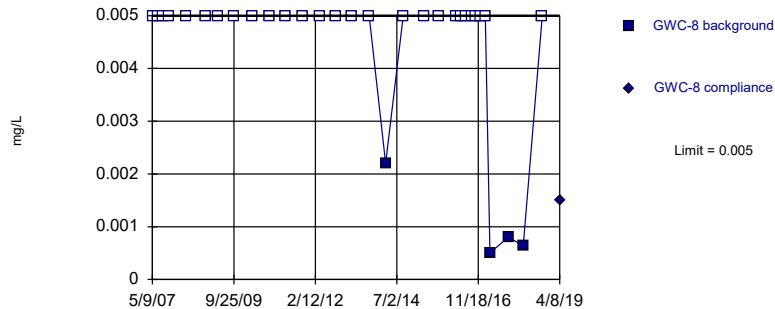
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. 46.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



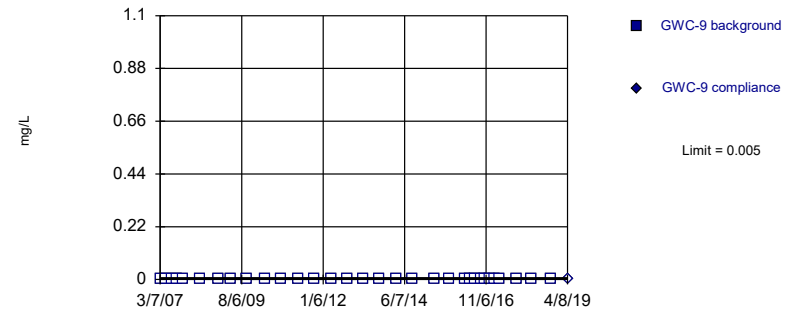
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 87.1% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



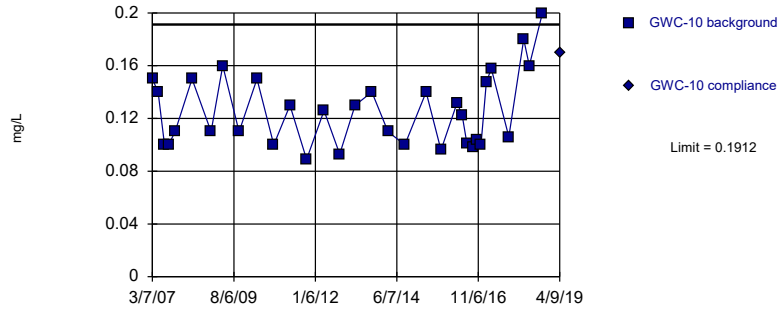
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



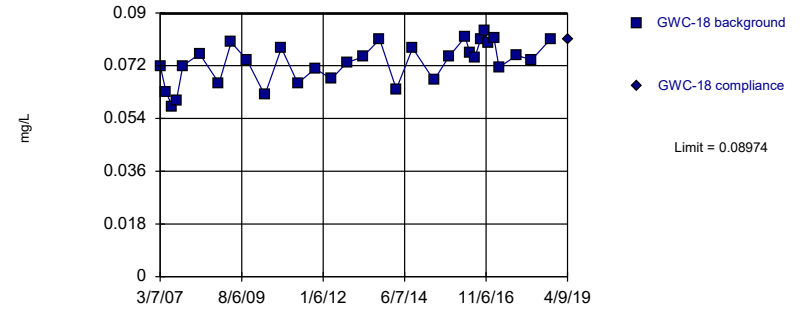
Background Data Summary: Mean=0.1255, Std. Dev.=0.02772, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9126, critical = 0.906. Kappa = 2.37 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



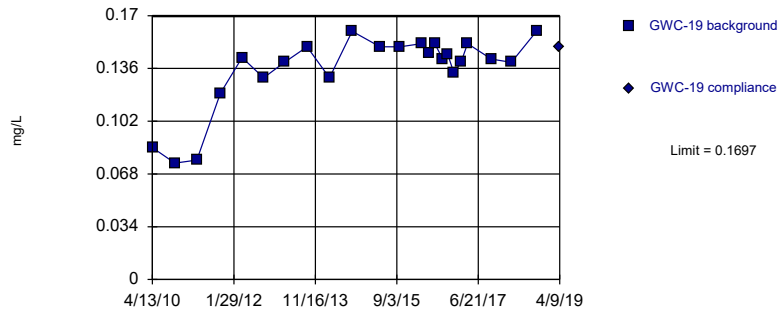
Background Data Summary: Mean=0.07311, Std. Dev.=0.006987, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.946, critical = 0.904. Kappa = 2.38 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



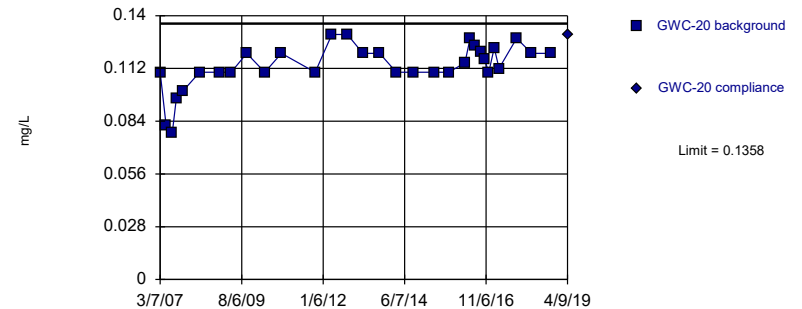
Background Data Summary (based on x^4 transformation): Mean=0.0003879, Std. Dev.=0.000176, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9161, critical = 0.881. Kappa = 2.512 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



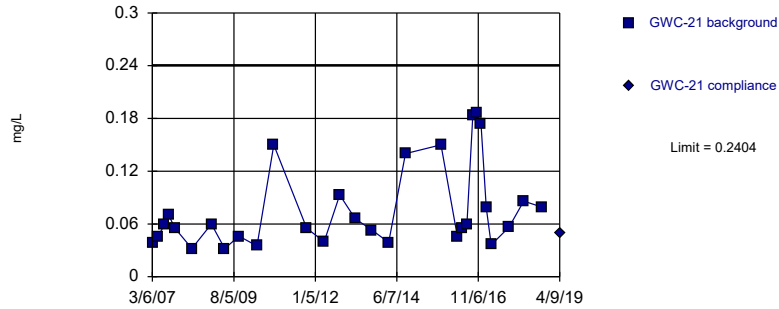
Background Data Summary (based on cube transformation): Mean=0.001502, Std. Dev.=0.0004195, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9239, critical = 0.902. Kappa = 2.39 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



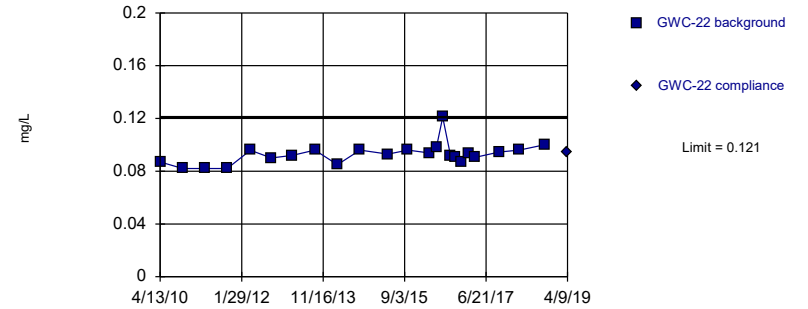
Background Data Summary (based on natural log transformation): Mean=2.722, Std. Dev.=0.5402, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9034, critical = 0.9. Kappa = 2.4 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



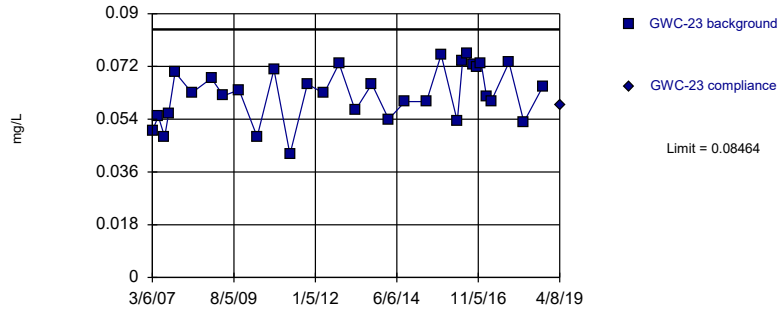
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



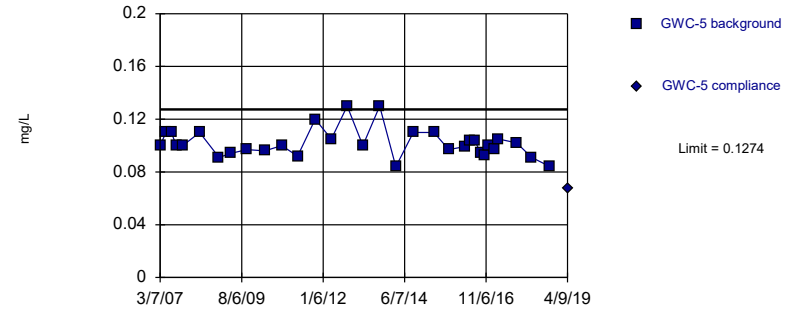
Background Data Summary: Mean=0.06272, Std. Dev.=0.009212, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9573, critical = 0.904. Kappa = 2.38 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



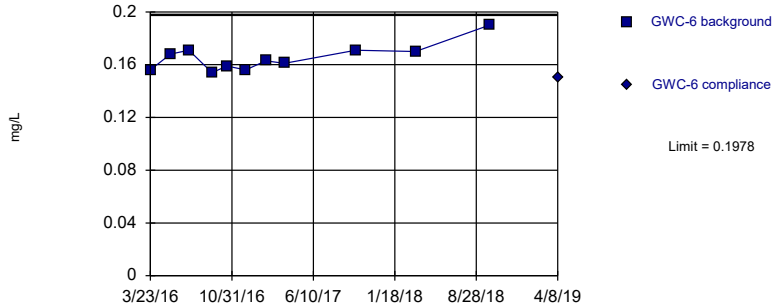
Background Data Summary: Mean=0.1019, Std. Dev.=0.01074, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9137, critical = 0.904. Kappa = 2.38 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



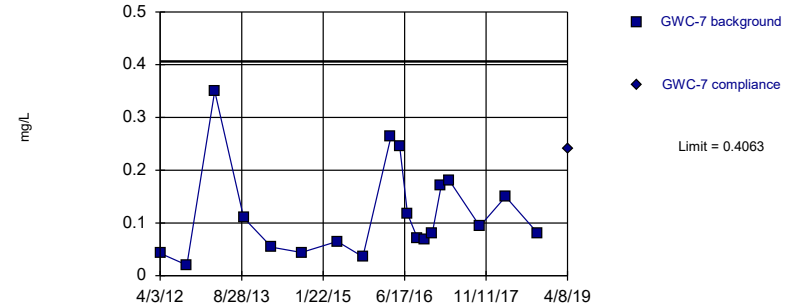
Background Data Summary: Mean=0.1654, Std. Dev.=0.01034, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8754, critical = 0.792. Kappa = 3.135 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



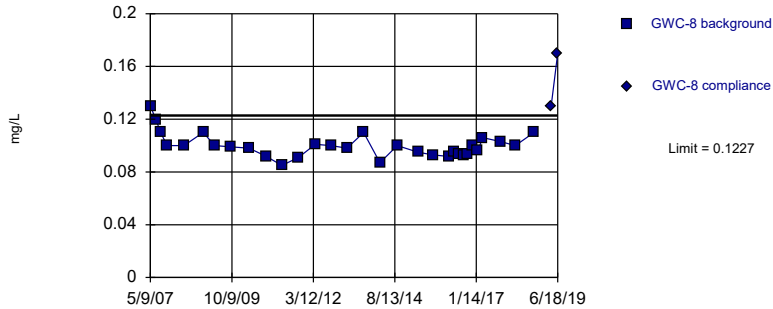
Background Data Summary (based on square root transformation): Mean=0.3226, Std. Dev.=0.1206, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9476, critical = 0.863. Kappa = 2.611 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Exceeds Limit

Prediction Limit  
Intrawell Parametric



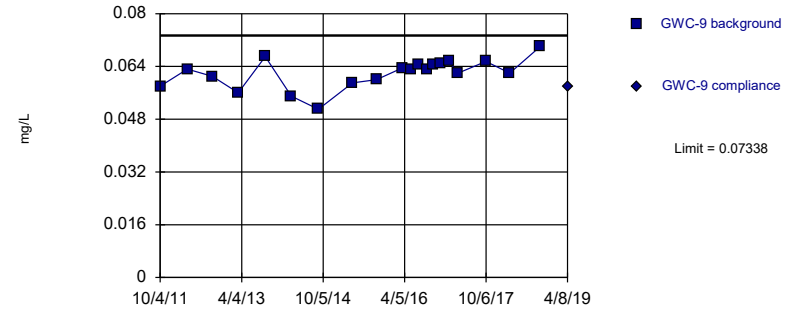
Background Data Summary (based on square root transformation): Mean=0.316, Std. Dev.=0.01439, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9173, critical = 0.902. Kappa = 2.39 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.06193, Std. Dev.=0.00445, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.868. Kappa = 2.575 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

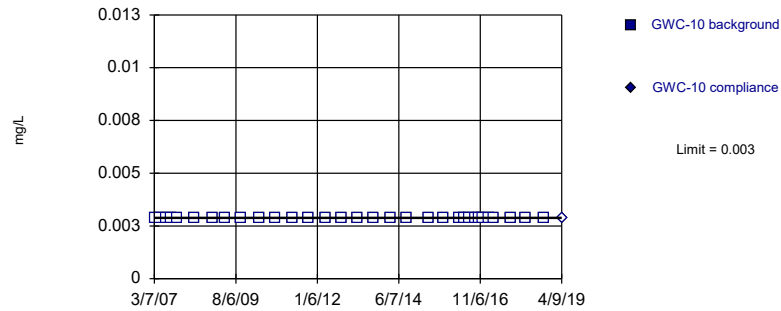
Constituent: Barium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill



Within Limit

### Prediction Limit Intrawell Non-parametric



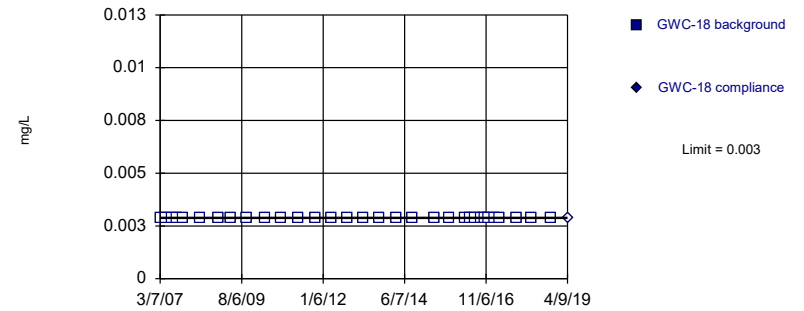
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



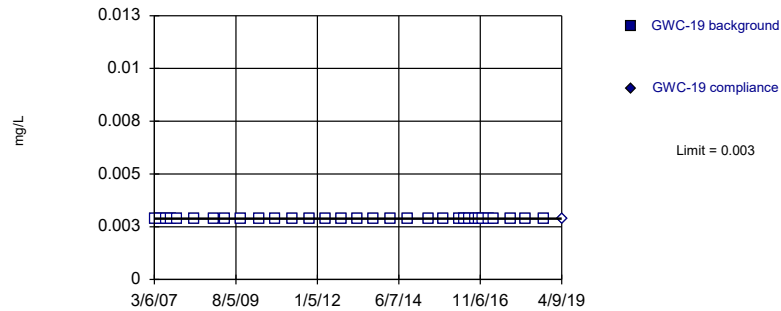
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



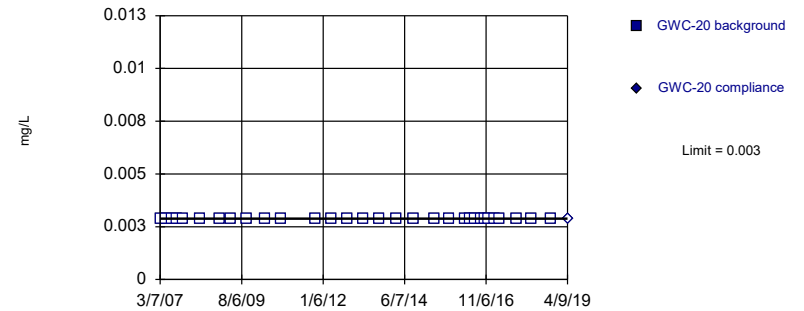
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



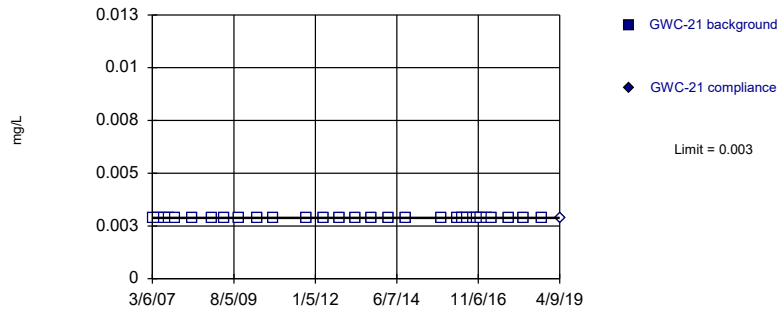
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



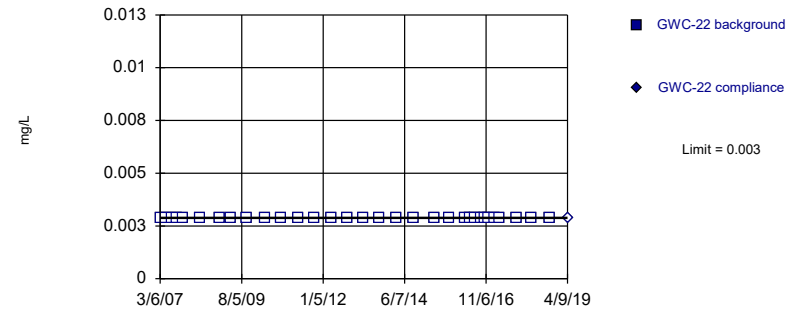
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 30) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



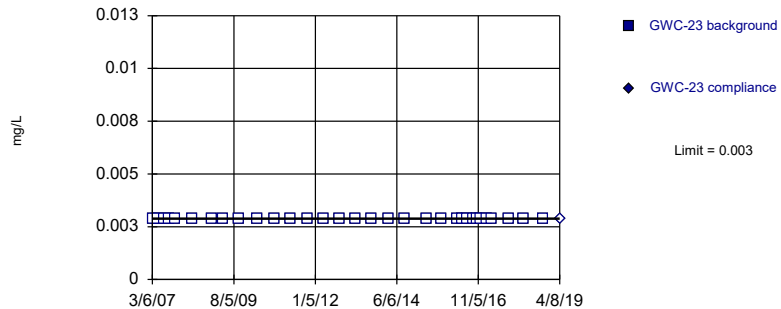
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



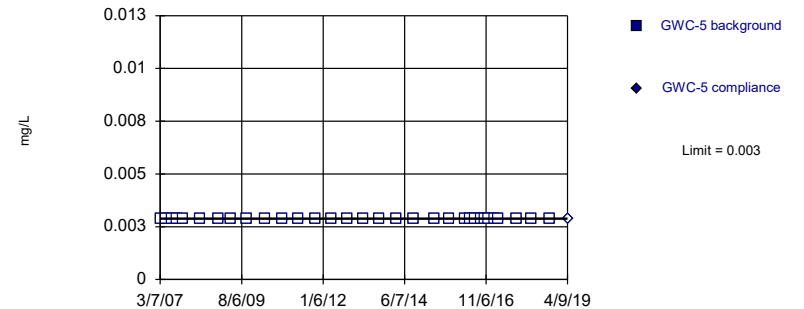
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



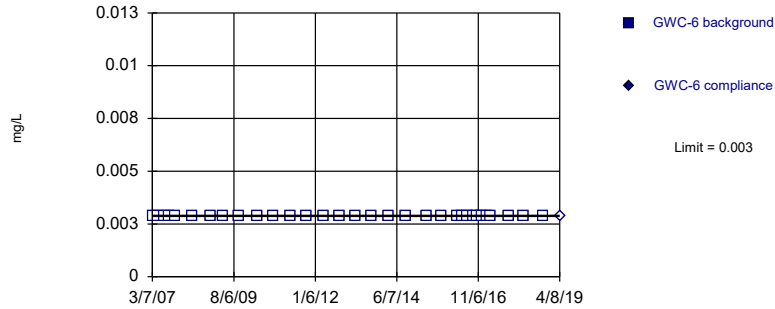
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



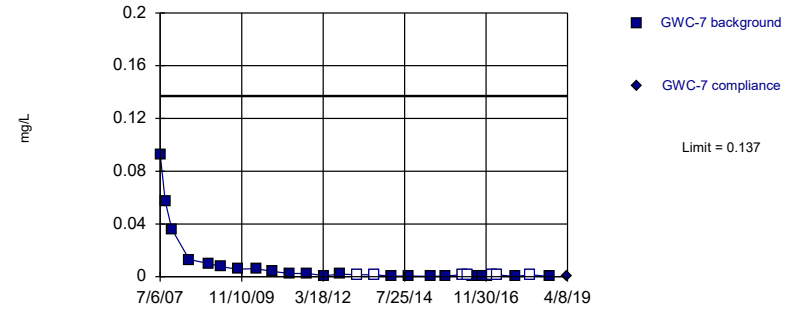
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



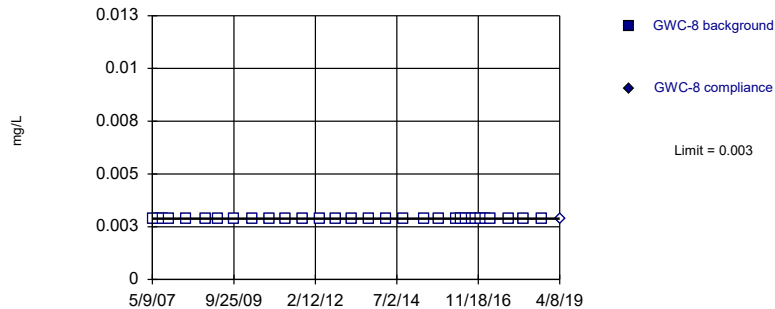
Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.771, Std. Dev.=1.993, n=30, 23.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9446, critical = 0.9. Kappa = 2.4 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



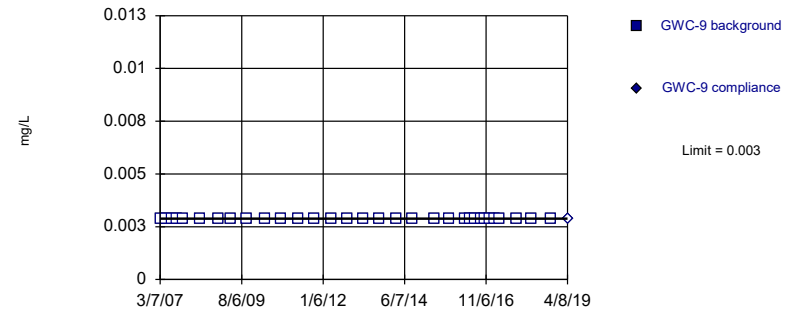
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



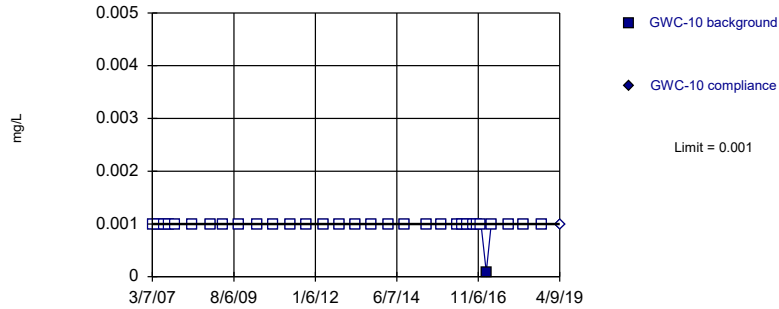
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



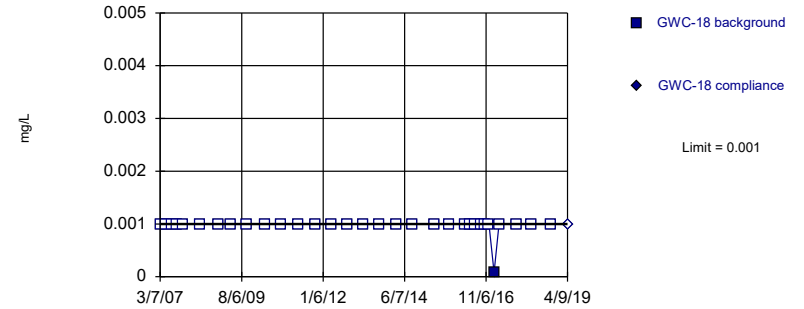
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



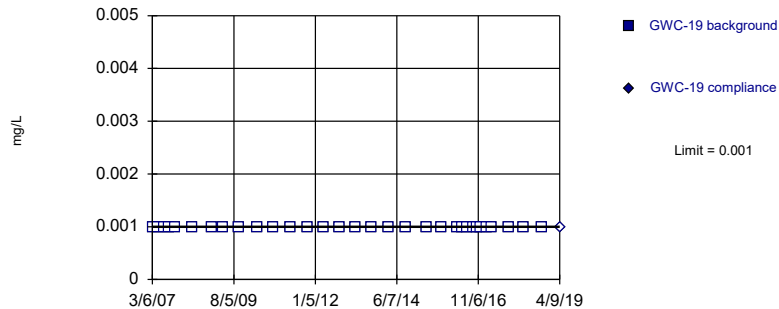
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



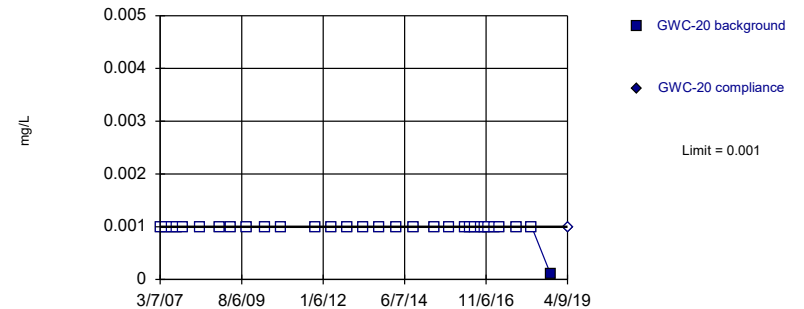
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:36 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



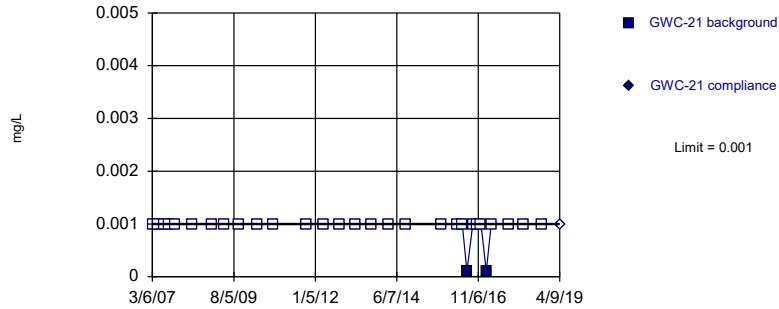
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



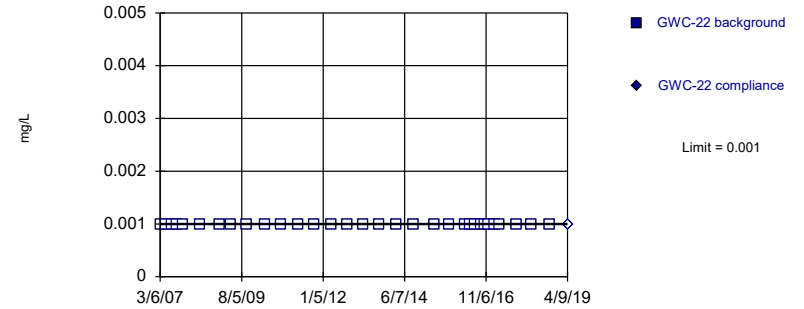
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



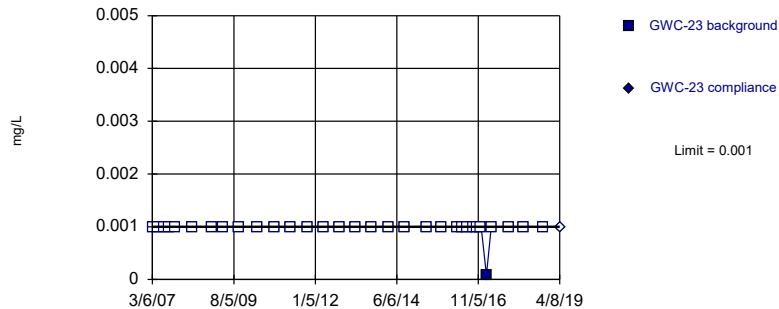
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



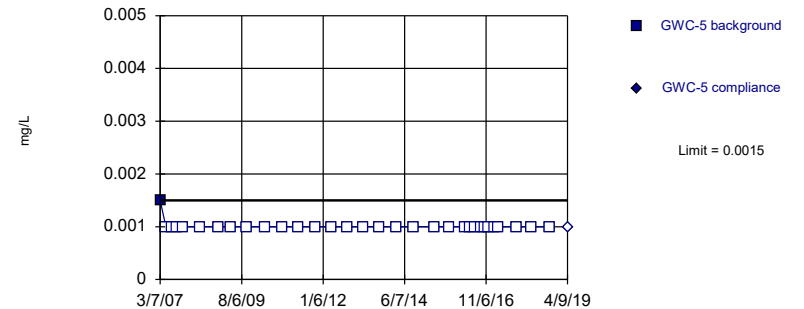
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



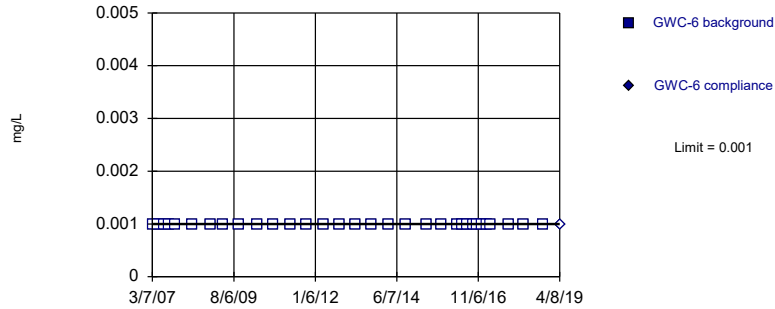
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

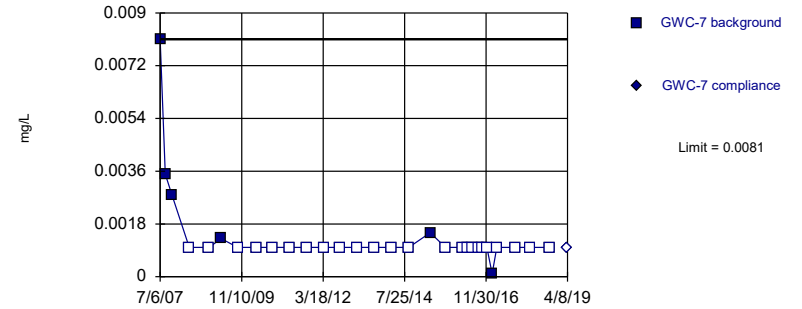


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:37 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

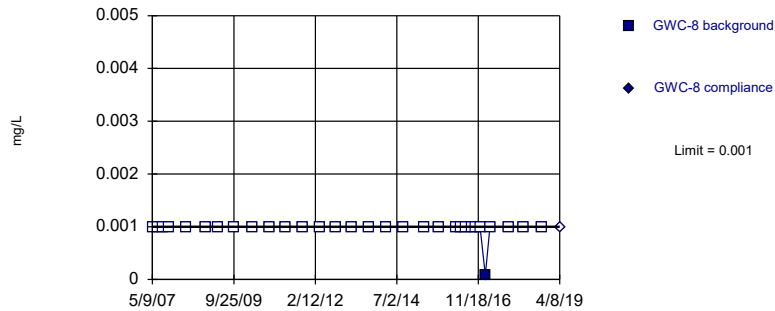


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 80% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:37 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

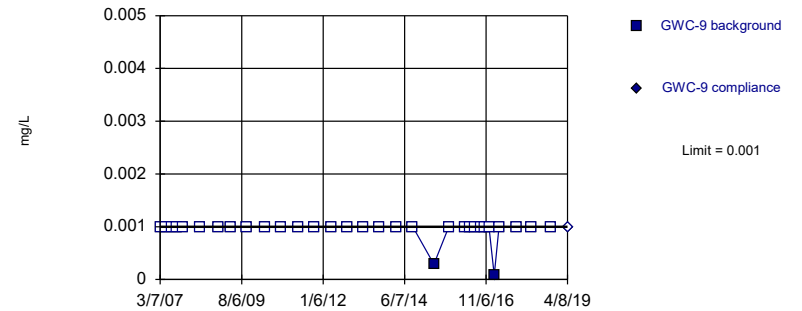


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:37 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

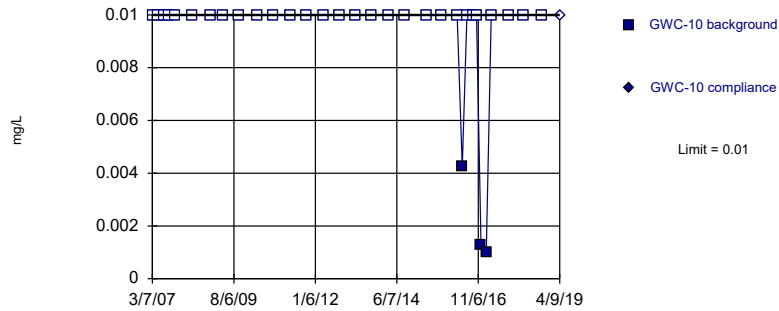


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 8/16/2019 8:37 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



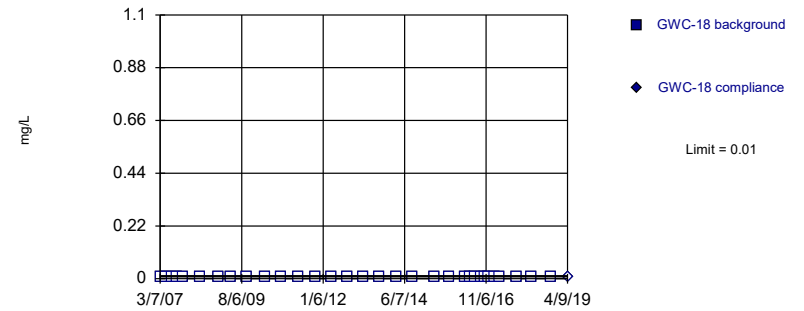
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



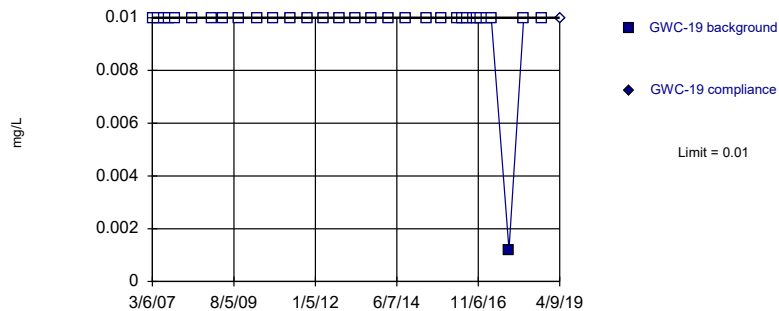
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



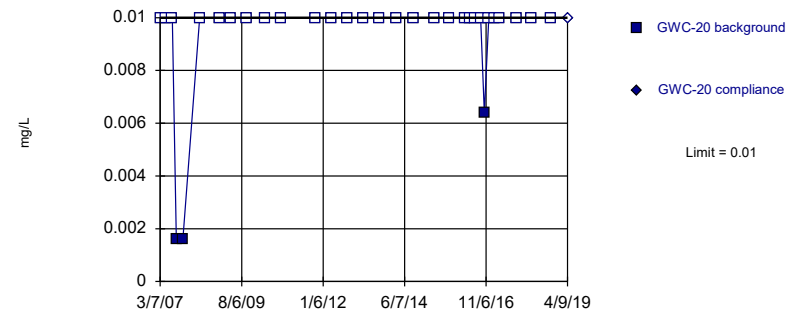
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



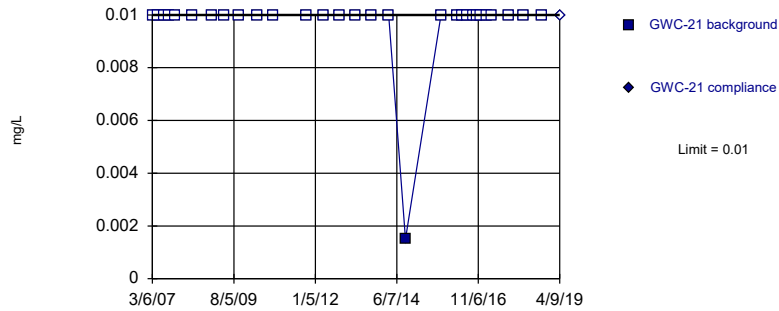
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 90.32% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



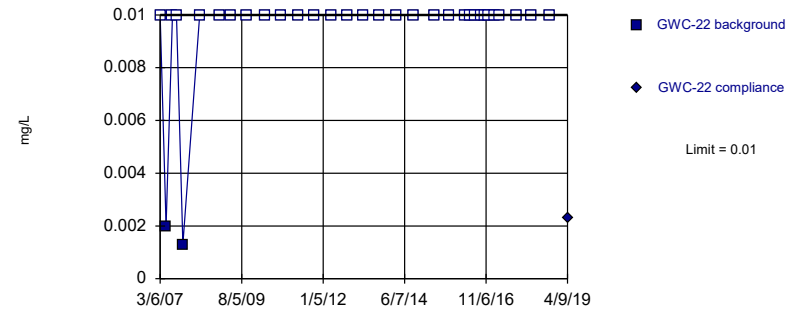
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



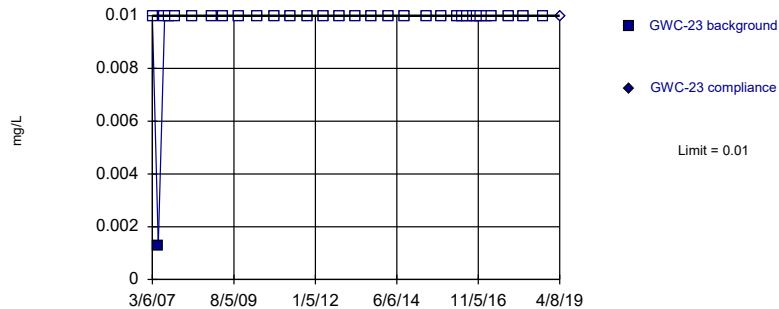
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



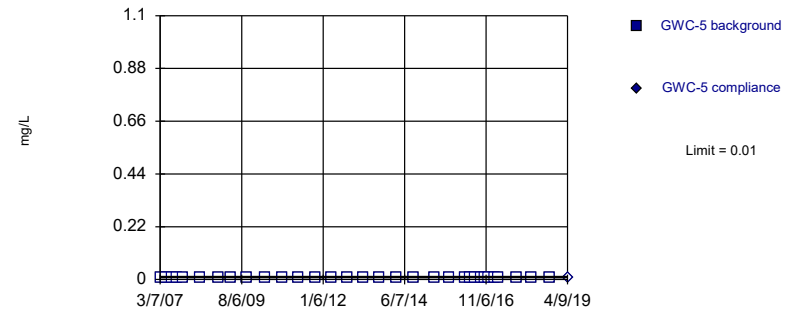
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

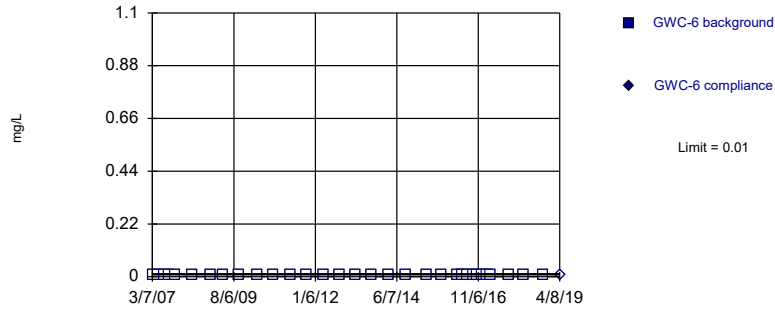
Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric



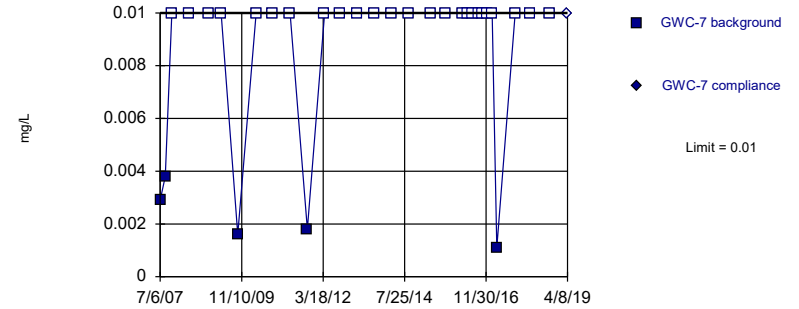
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



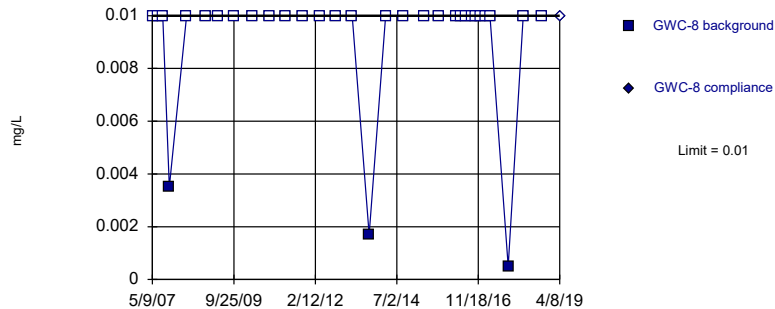
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



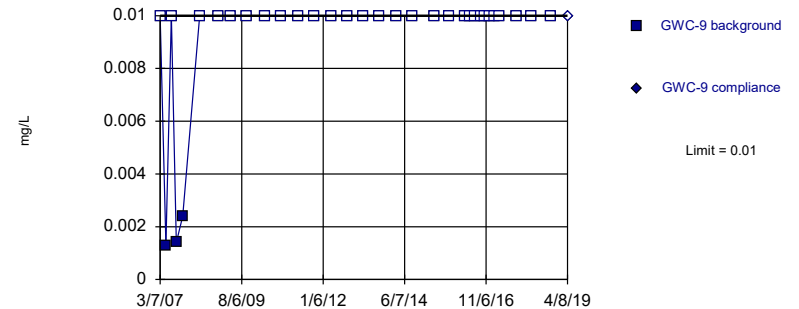
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 90.32% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



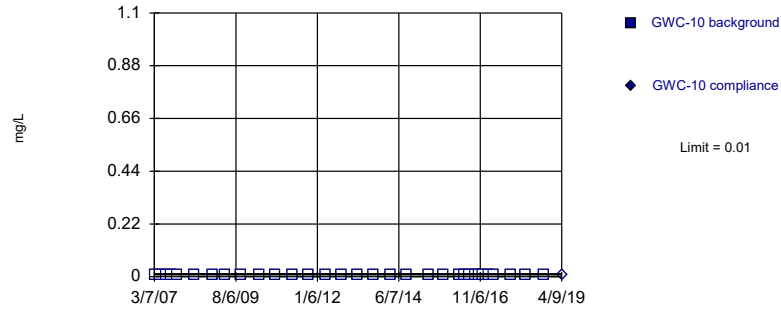
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



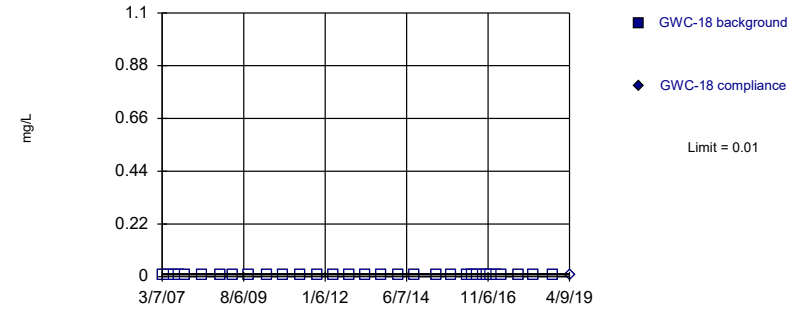
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



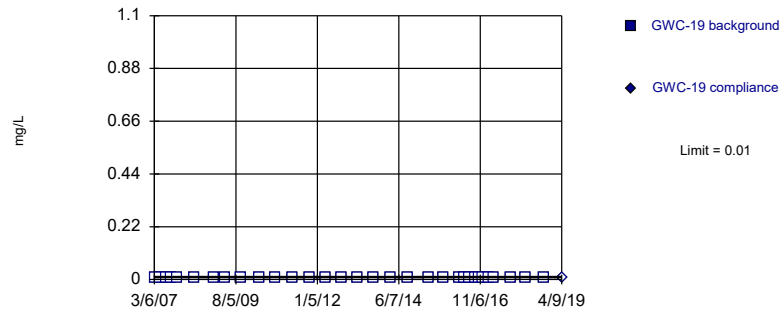
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



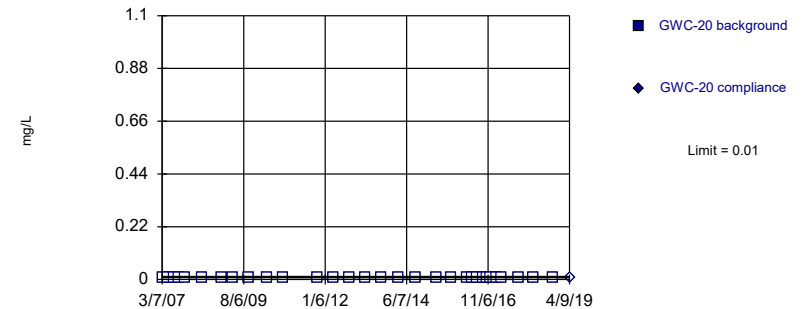
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



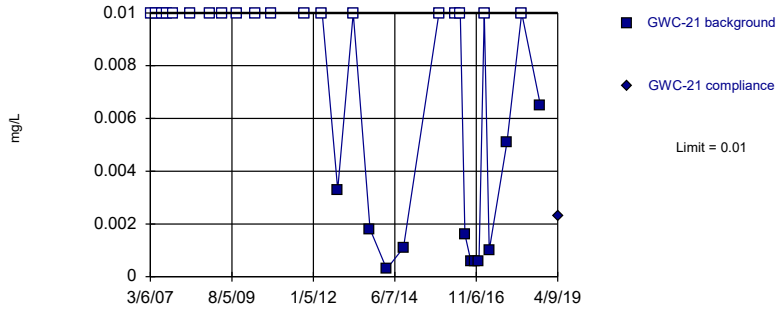
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



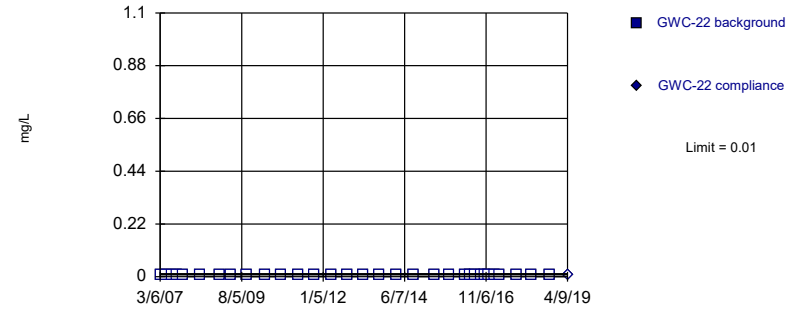
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 63.33% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



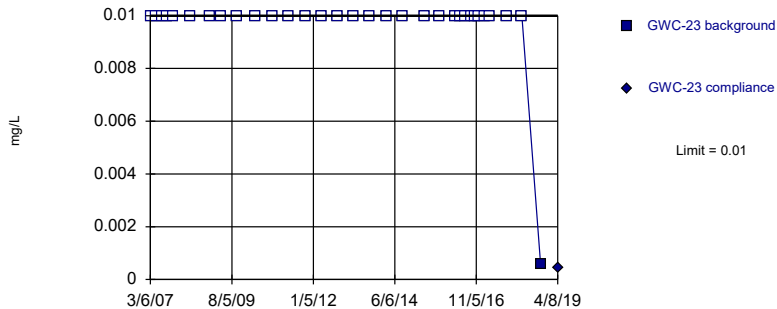
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



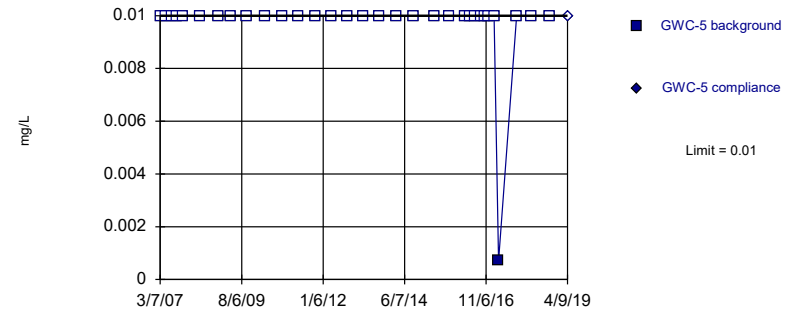
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

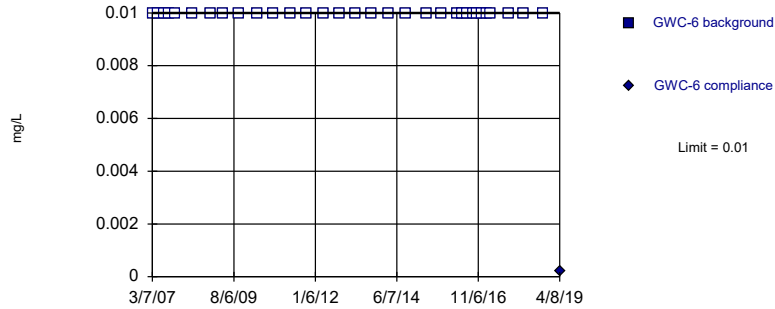


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit  
Prediction Limit  
Intrawell Non-parametric

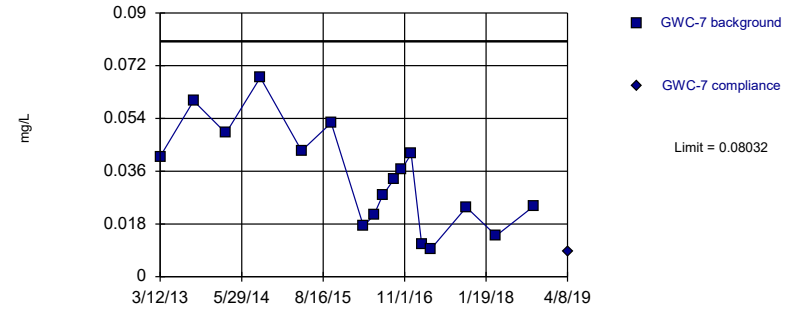


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit  
Prediction Limit  
Intrawell Parametric

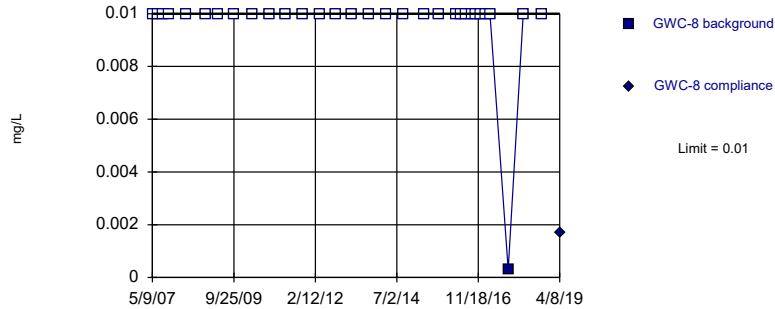


Background Data Summary: Mean=0.03376, Std. Dev.=0.01735, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9626, critical = 0.851. Kappa = 2.684 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit  
Prediction Limit  
Intrawell Non-parametric

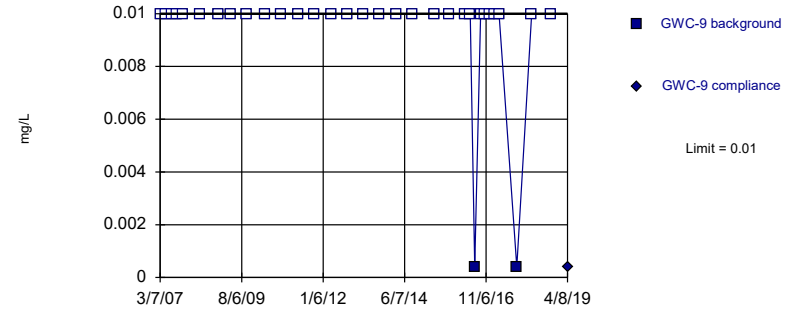


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit  
Prediction Limit  
Intrawell Non-parametric



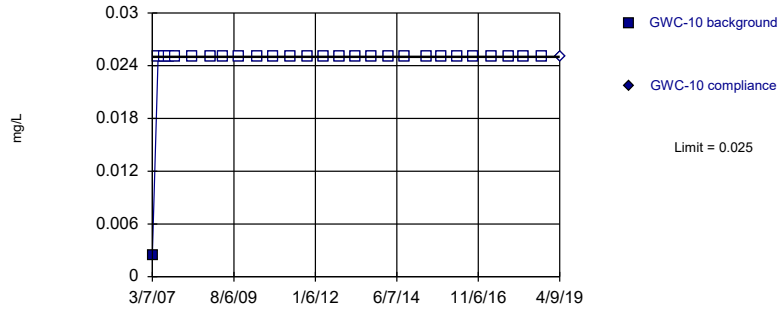
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cobalt Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



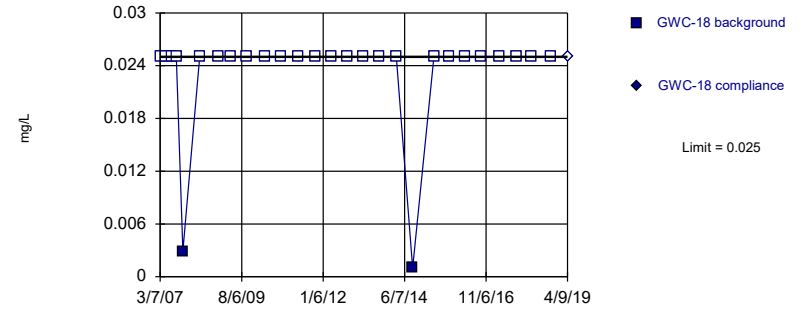
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



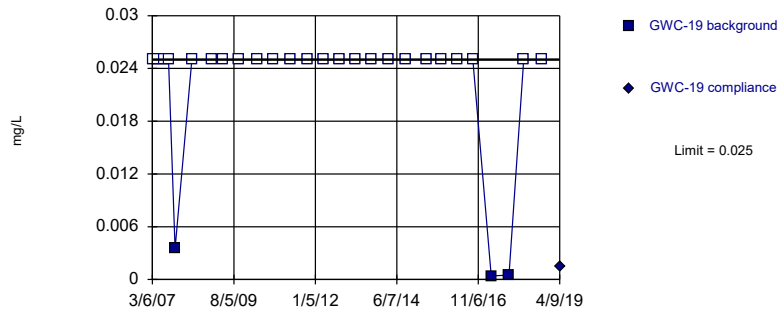
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



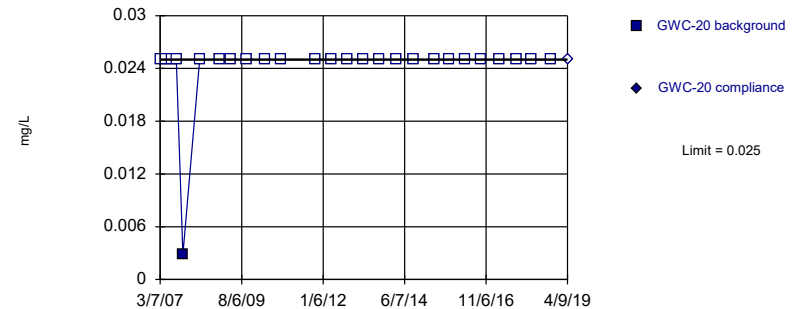
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



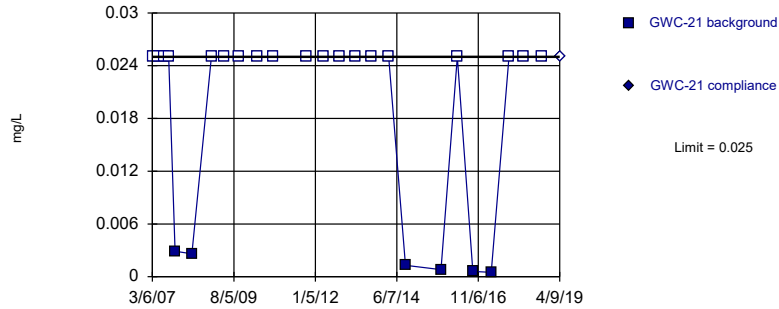
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



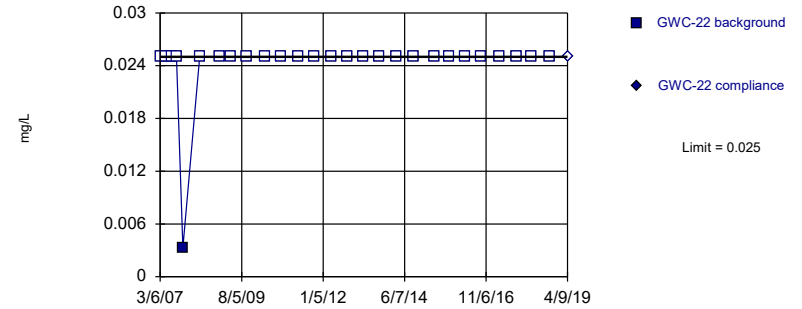
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 76% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



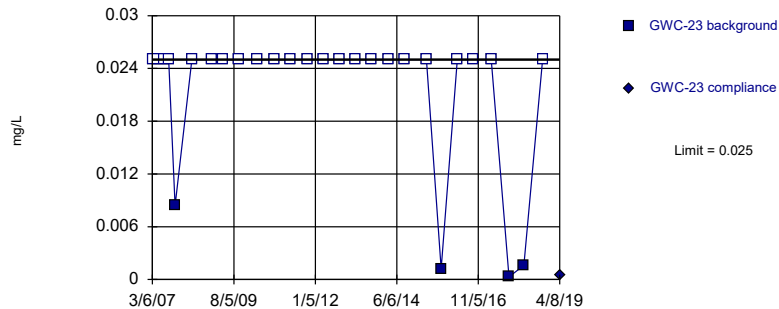
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



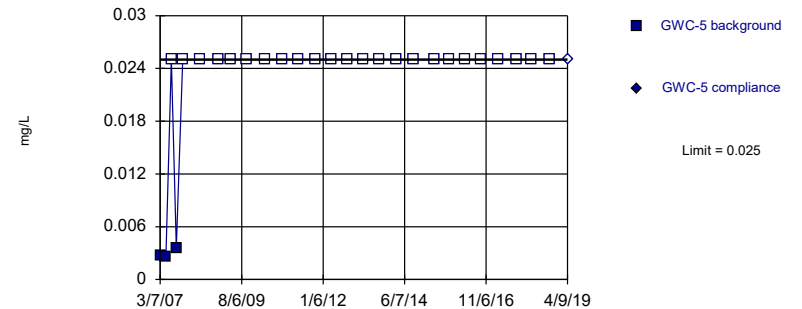
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



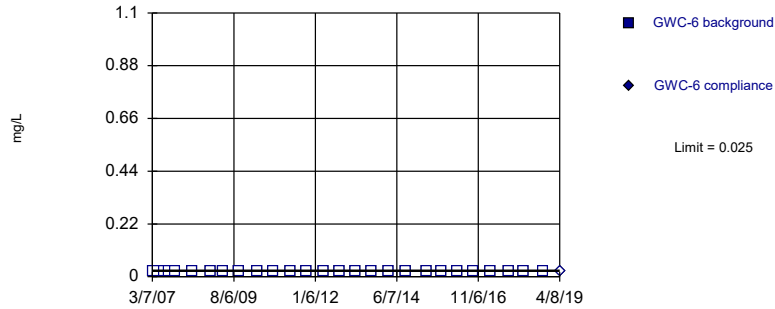
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



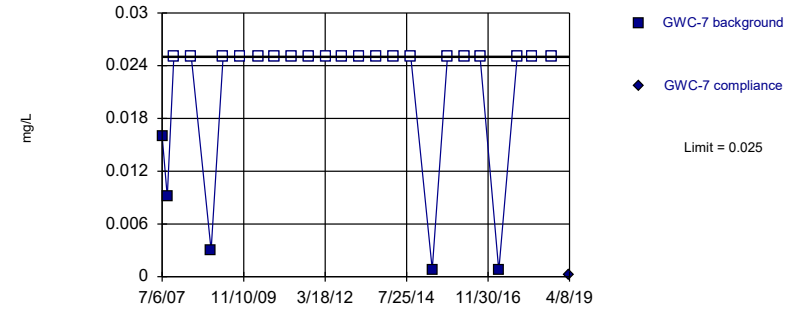
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



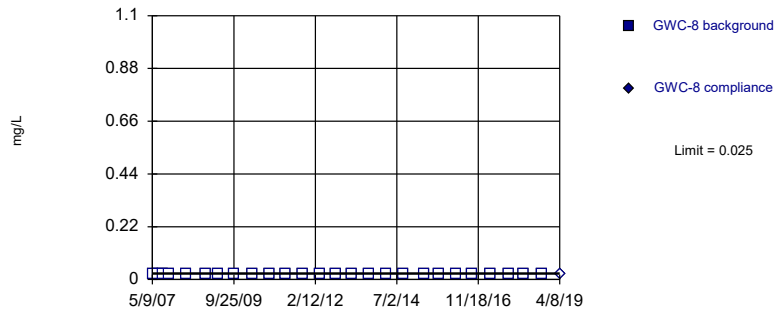
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 80% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



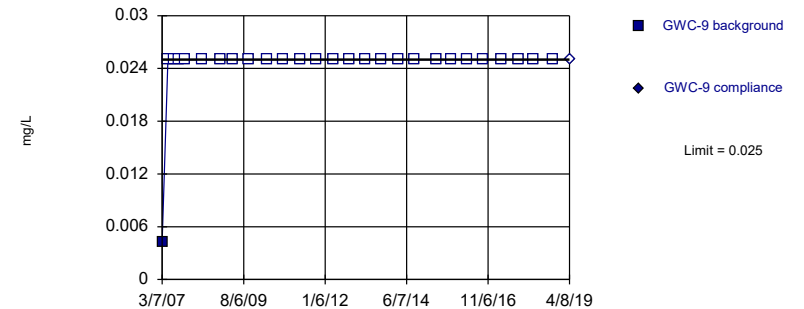
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



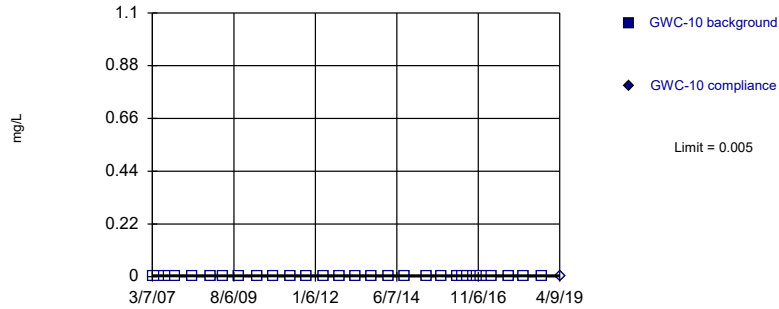
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Copper Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



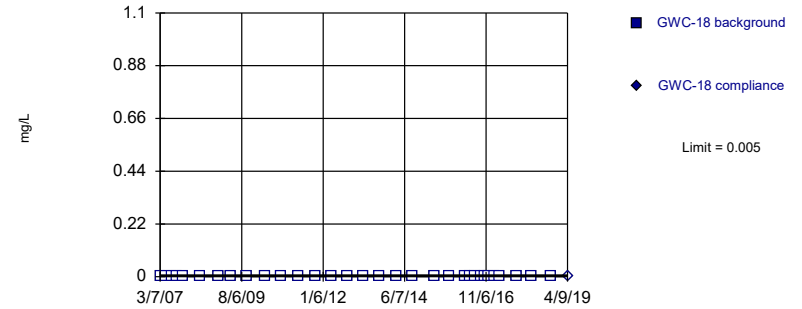
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



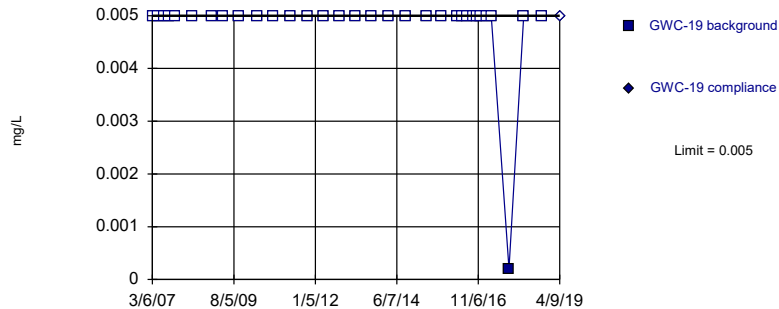
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



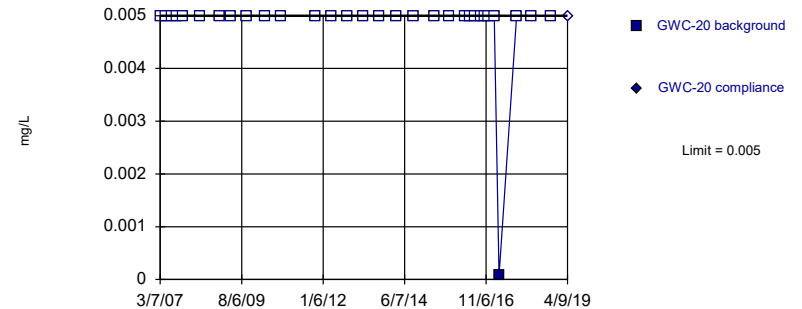
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

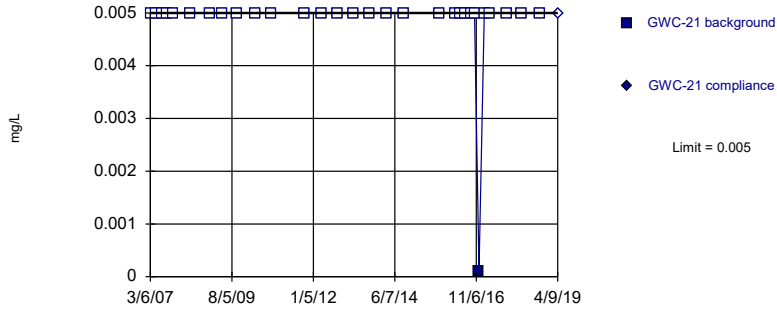
Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill



Within Limit

### Prediction Limit Intrawell Non-parametric



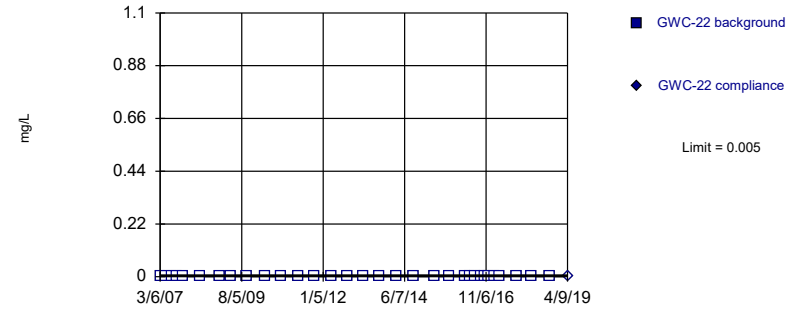
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



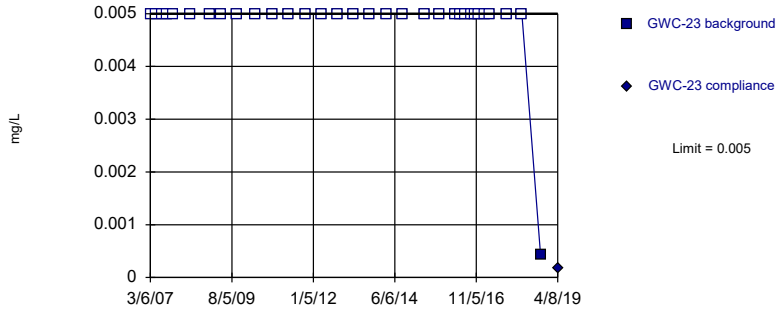
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



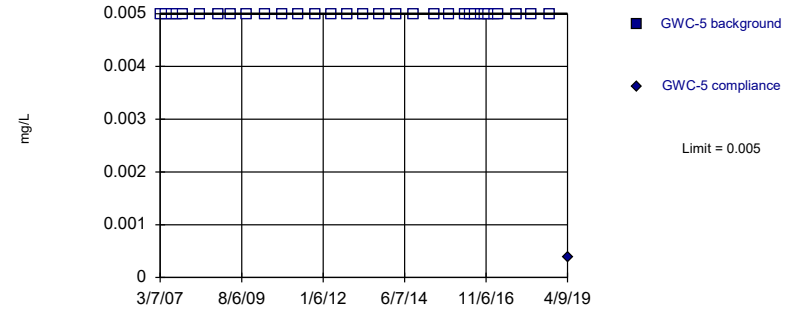
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



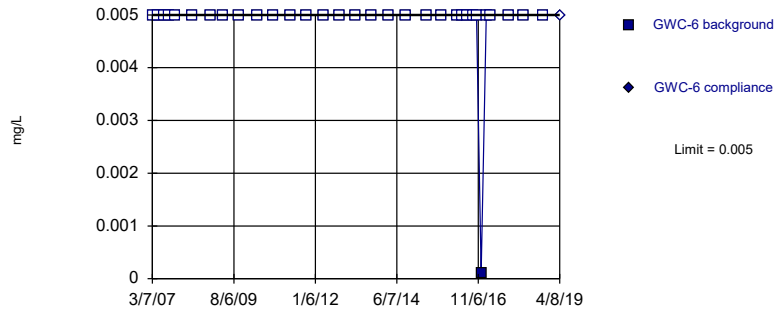
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



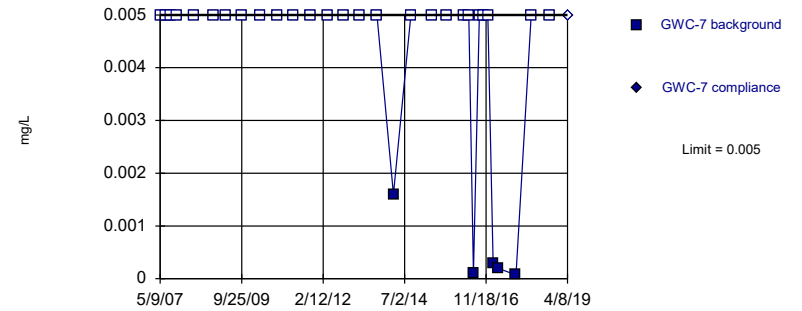
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



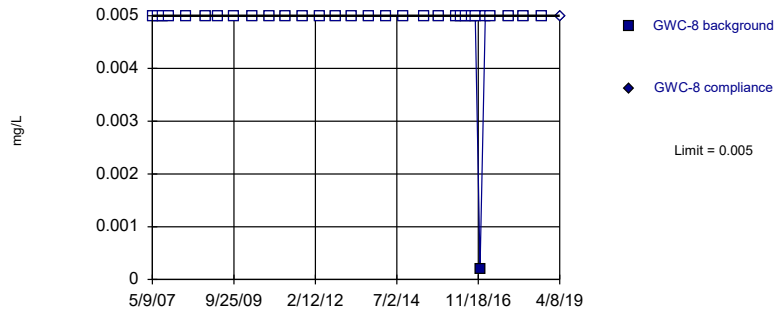
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 83.87% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



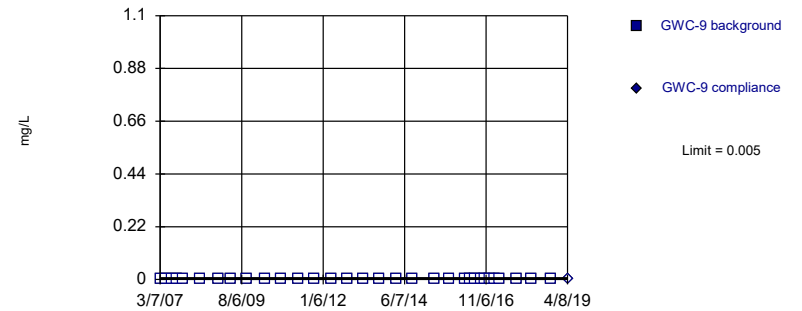
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 96.77% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



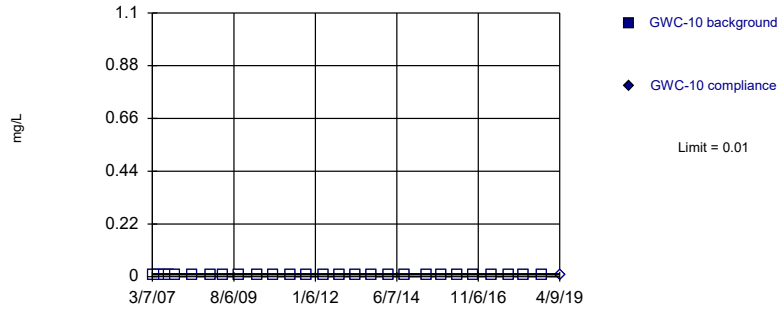
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



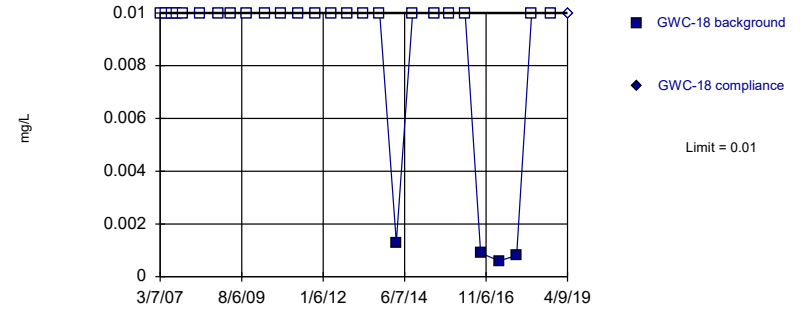
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



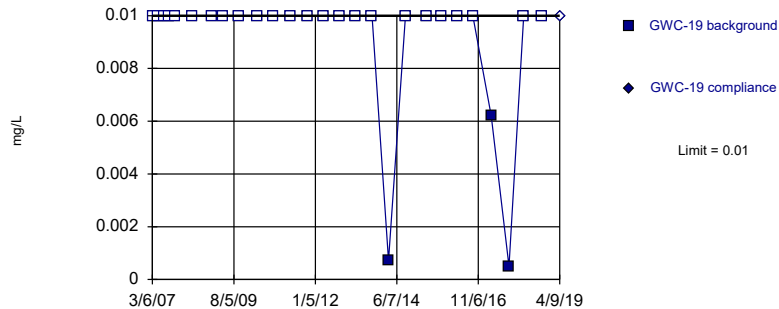
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 85.19% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



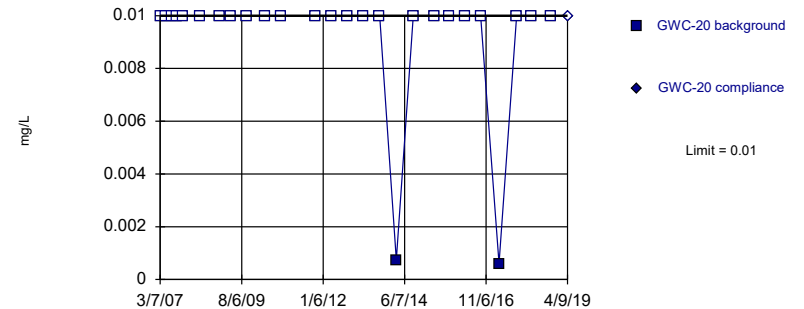
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



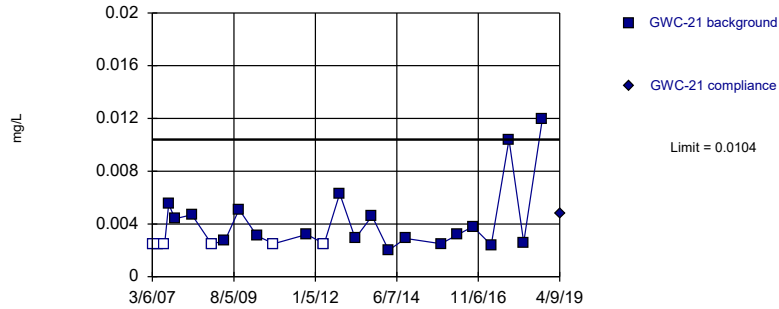
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Parametric



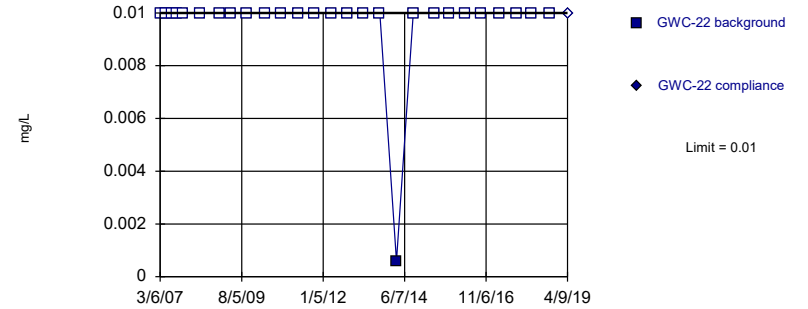
Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.156, Std. Dev.=0.02523, n=25, 24% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8912, critical = 0.888. Kappa = 2.47 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



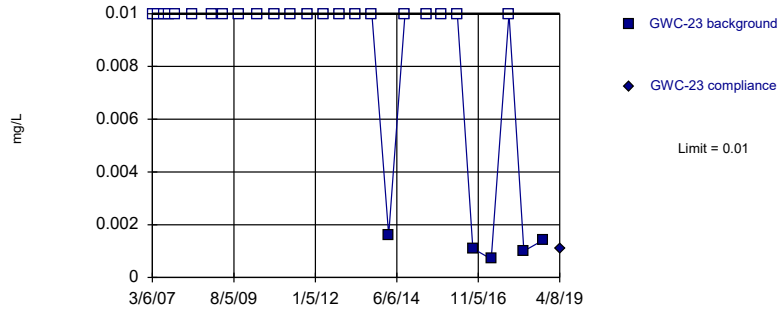
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



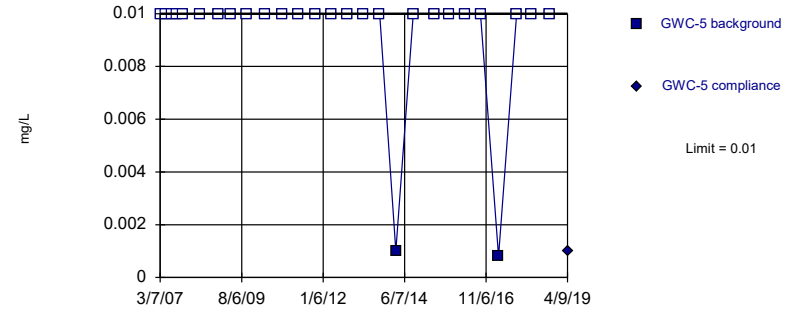
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



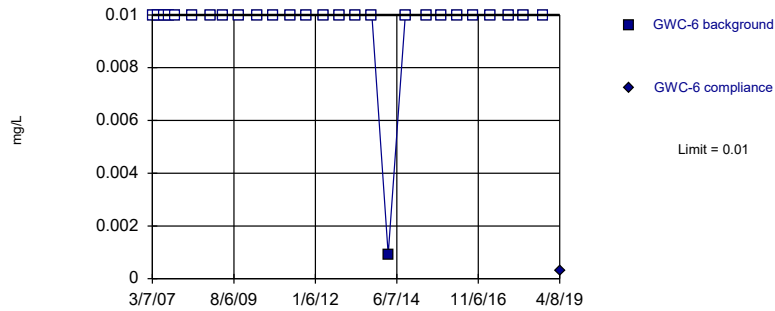
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



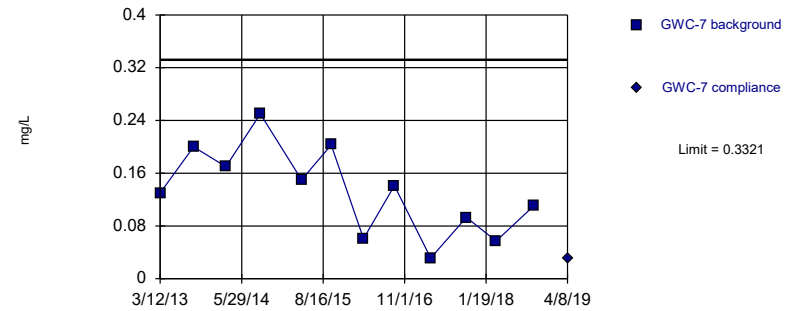
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



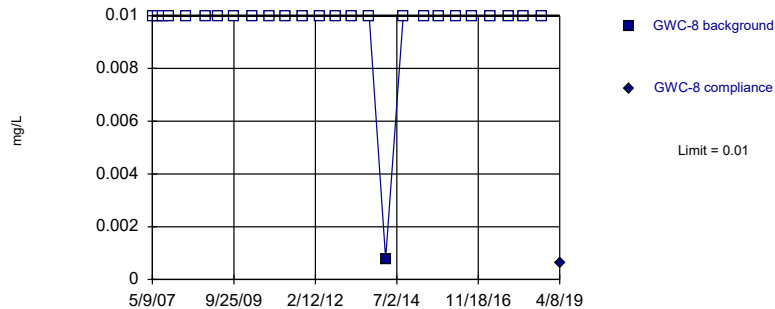
Background Data Summary: Mean=0.133, Std. Dev.=0.06625, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9771, critical = 0.805. Kappa = 3.005 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



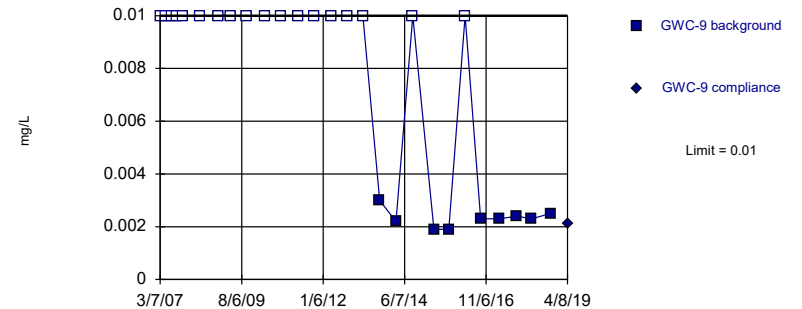
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



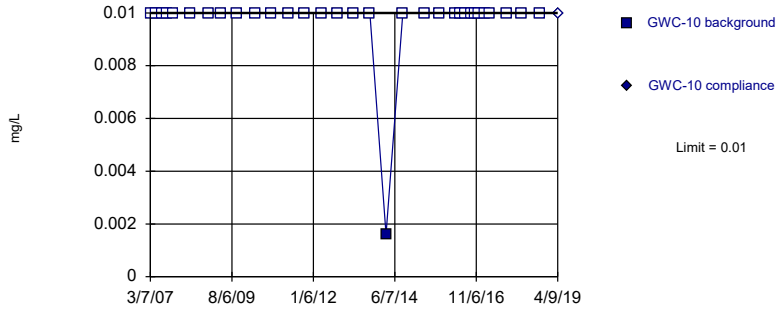
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Nickel Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



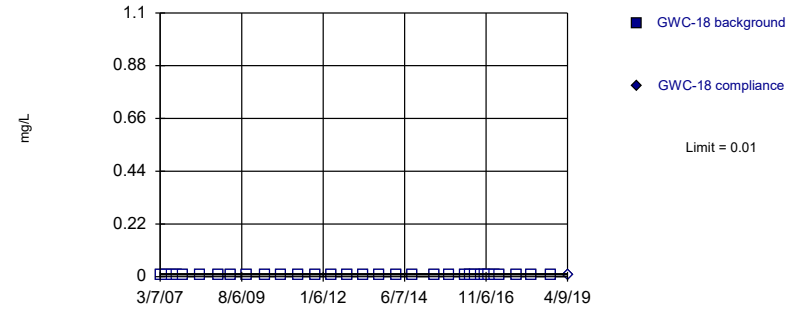
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



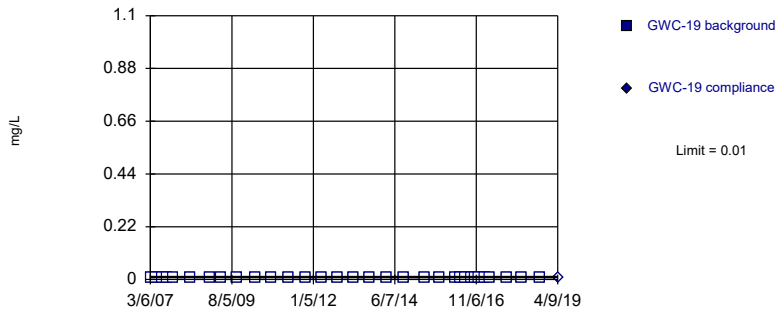
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



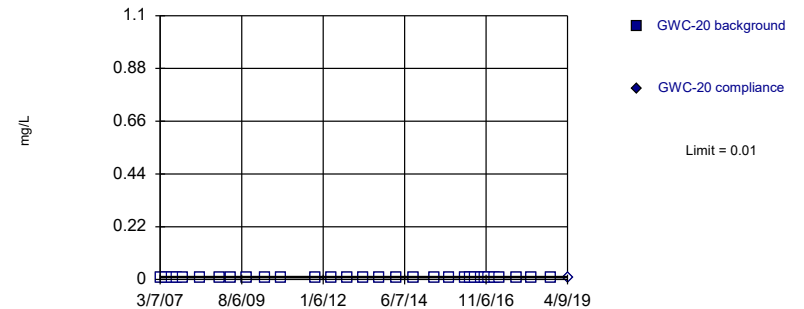
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



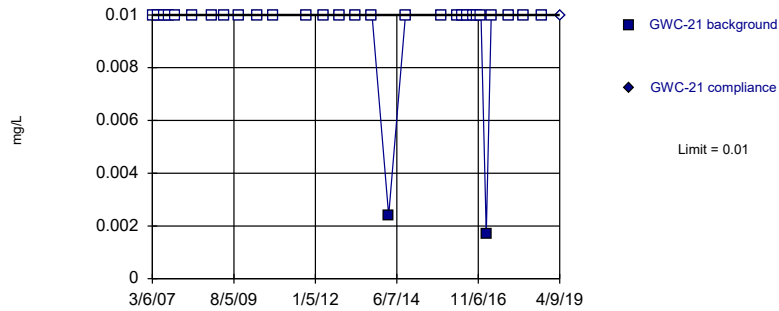
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



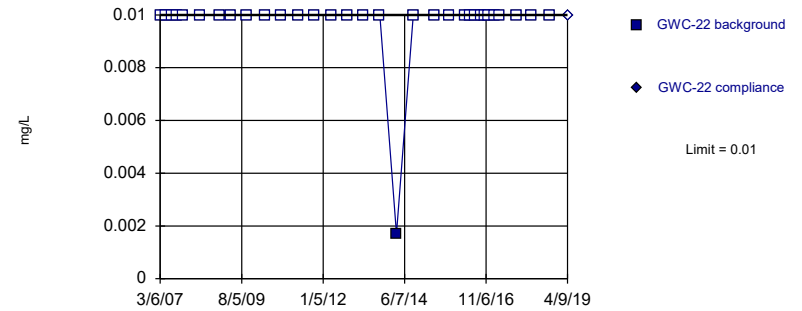
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 93.33% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



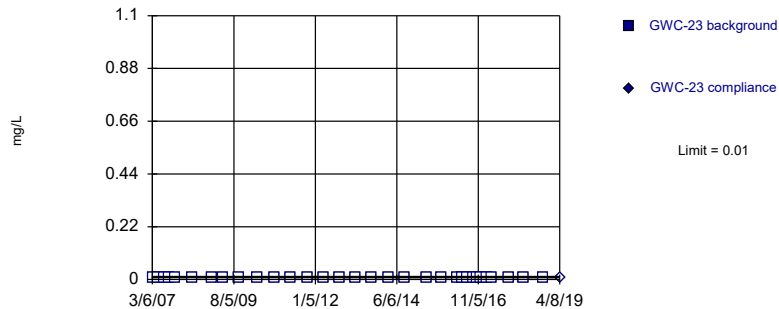
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



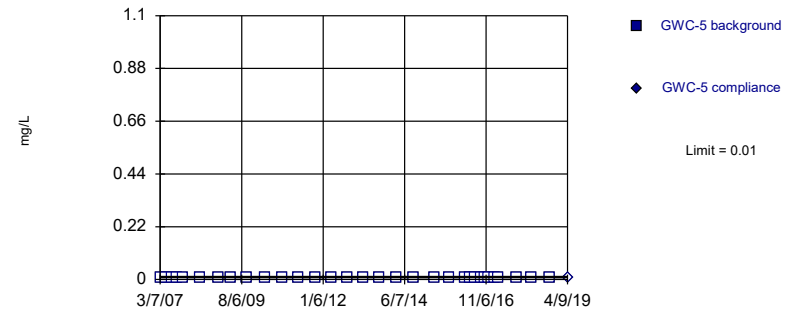
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

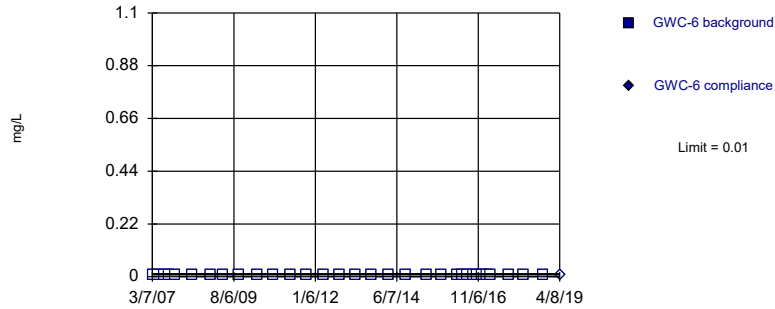


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

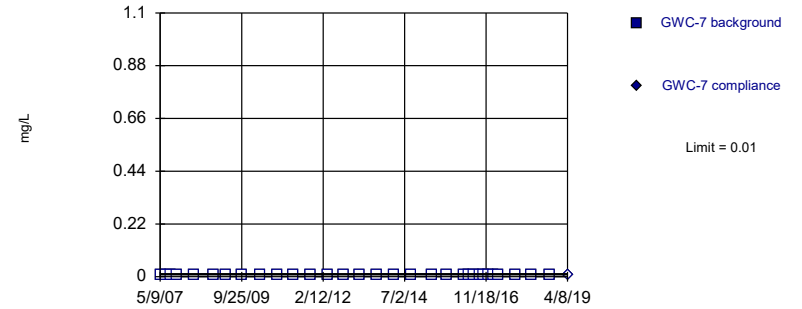
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

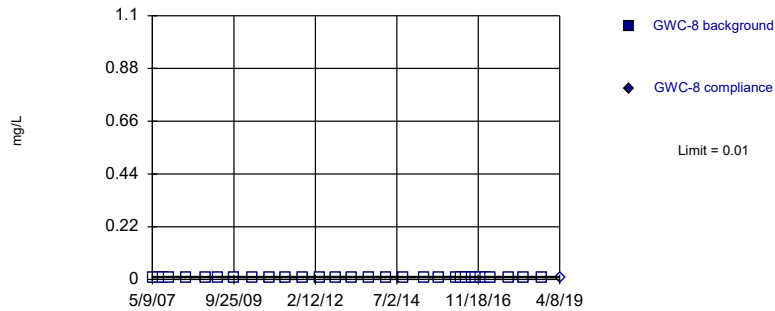
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

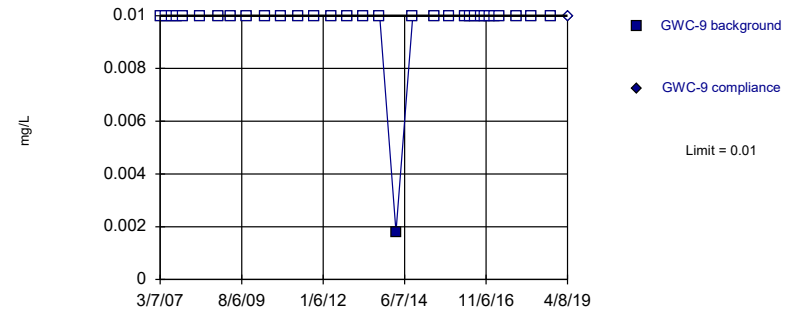
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit Prediction Limit  
Intrawell Non-parametric



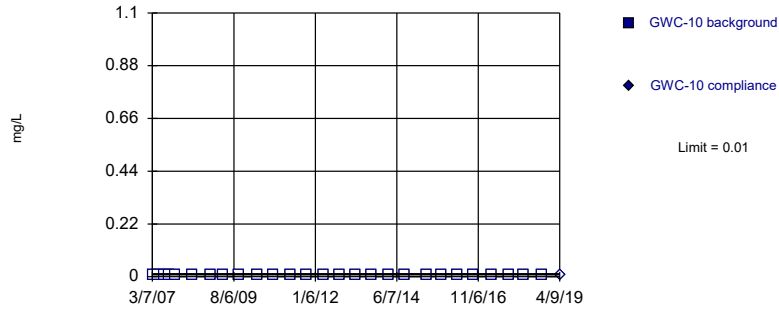
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 8/16/2019 8:37 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric



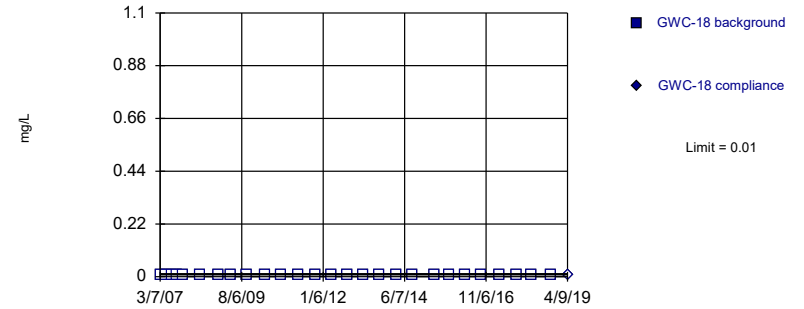
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



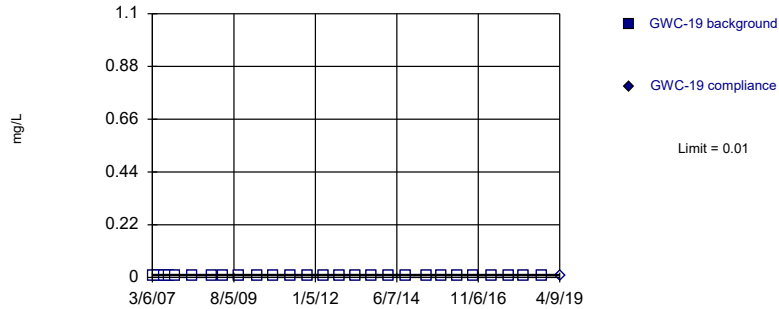
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



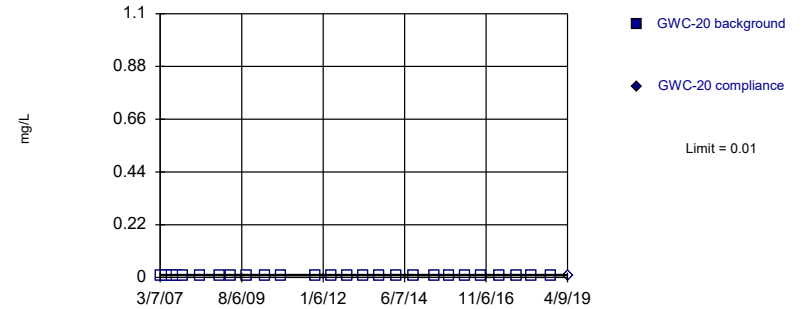
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



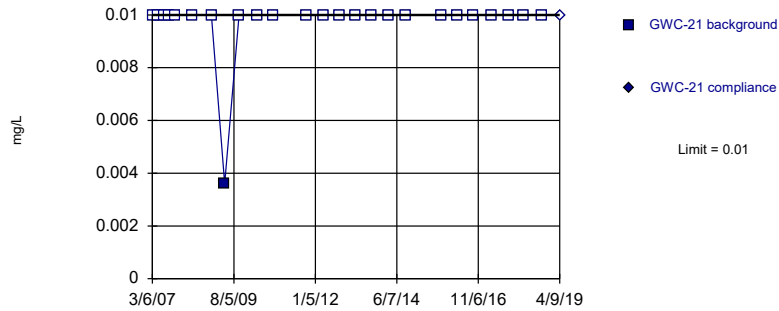
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



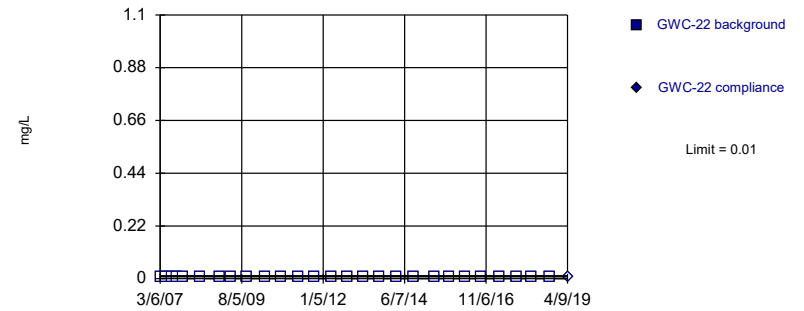
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



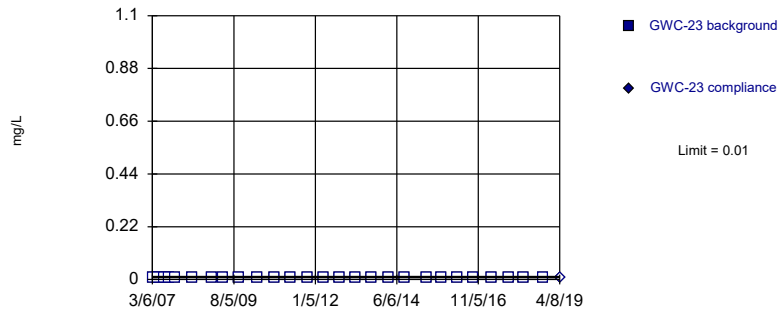
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



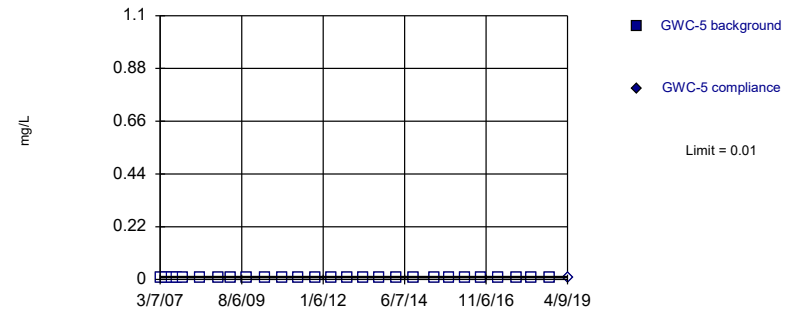
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



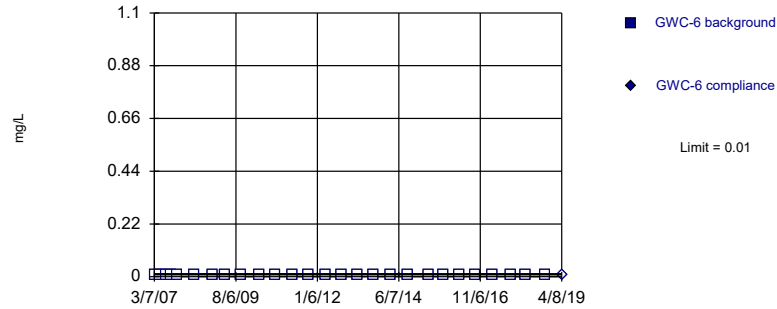
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:37 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



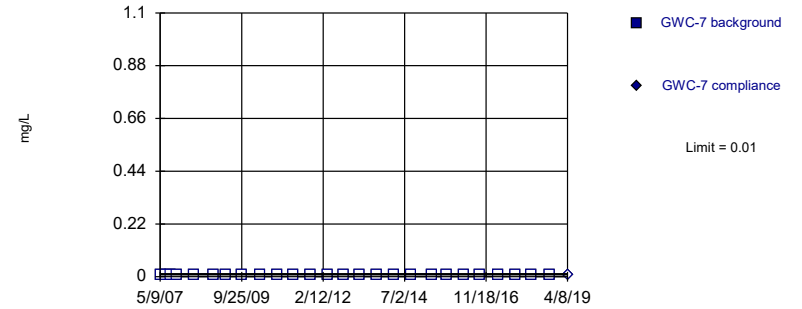
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



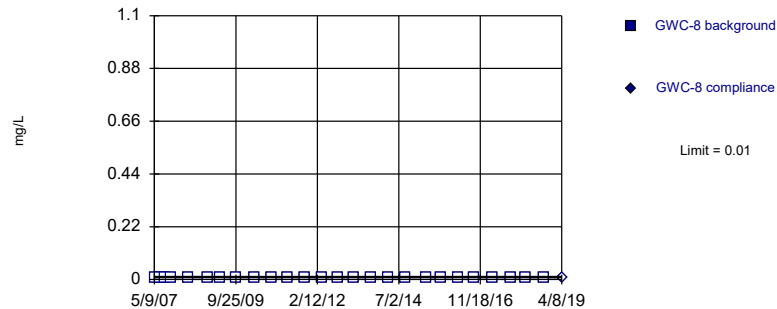
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



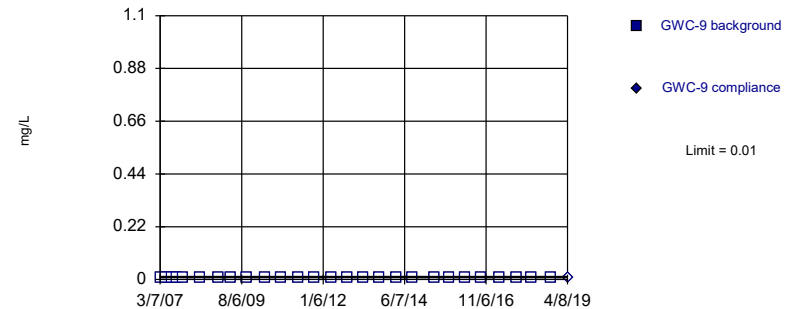
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



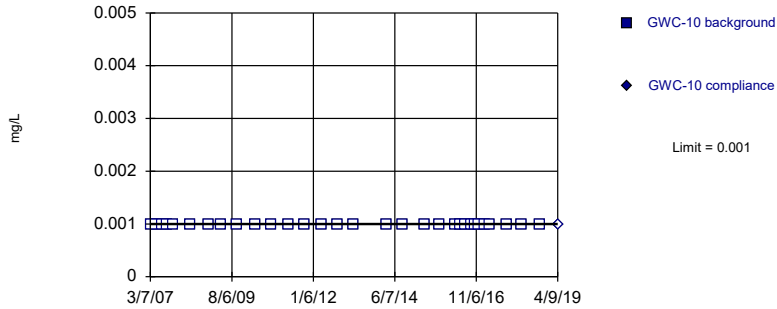
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Silver Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



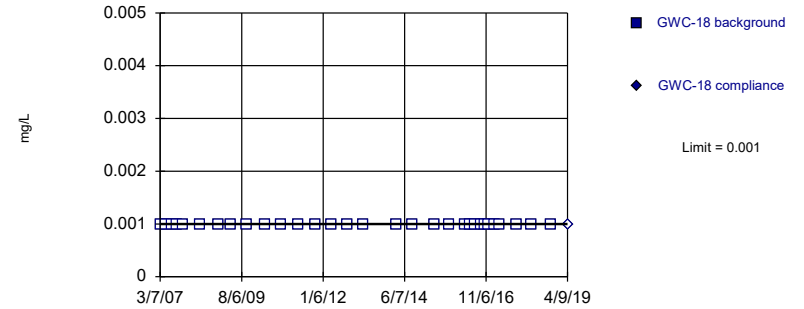
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



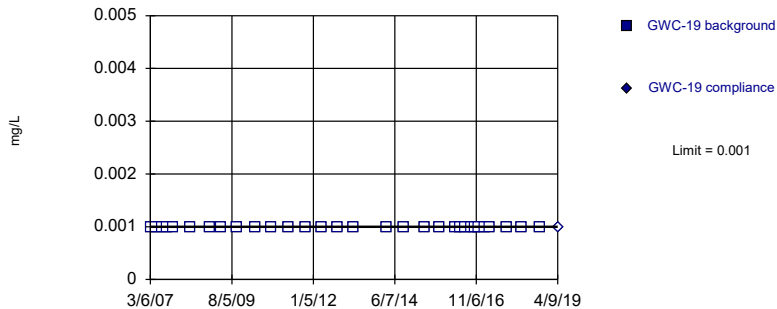
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



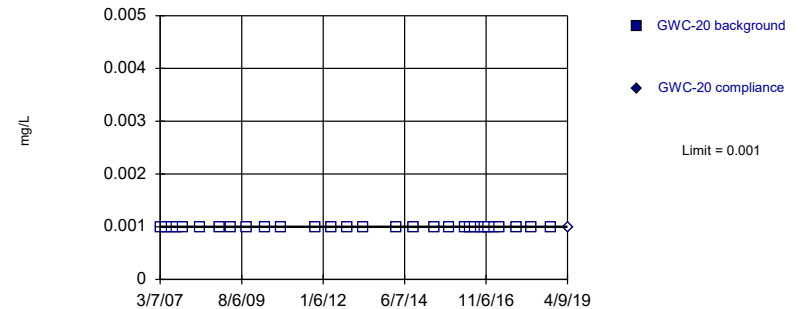
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



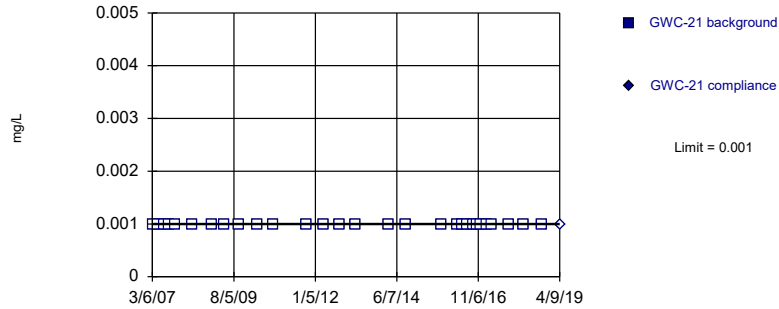
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 30) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

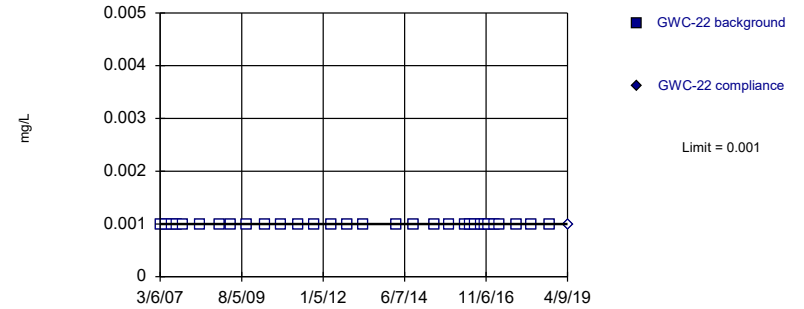


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 29) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00434. Individual comparison alpha = 0.002172 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

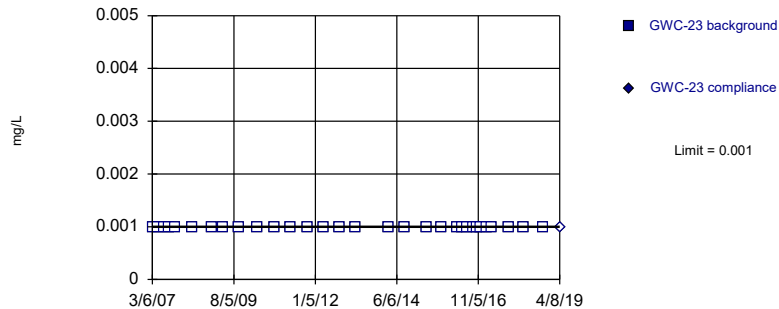


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

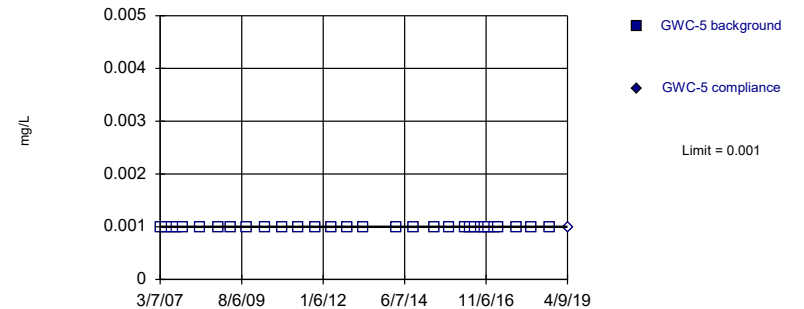


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric

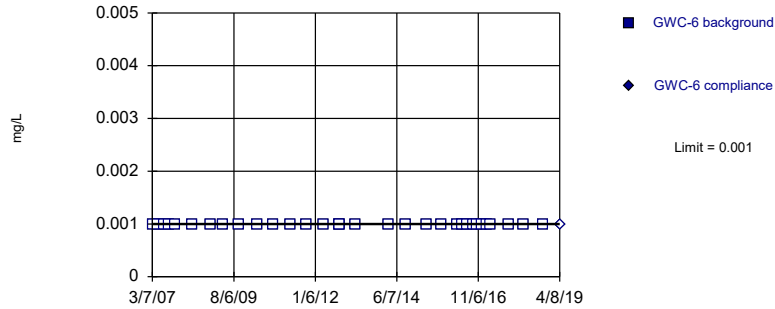


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

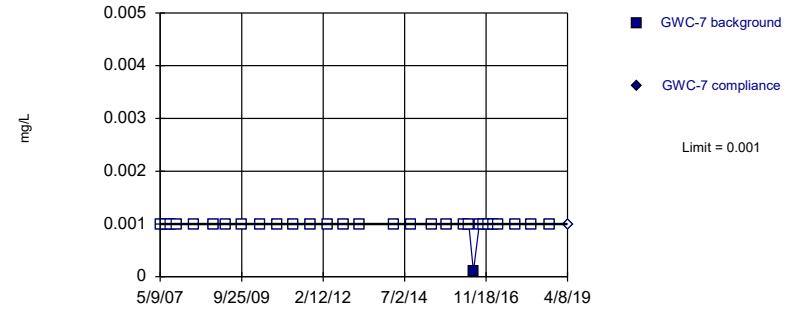


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 32) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

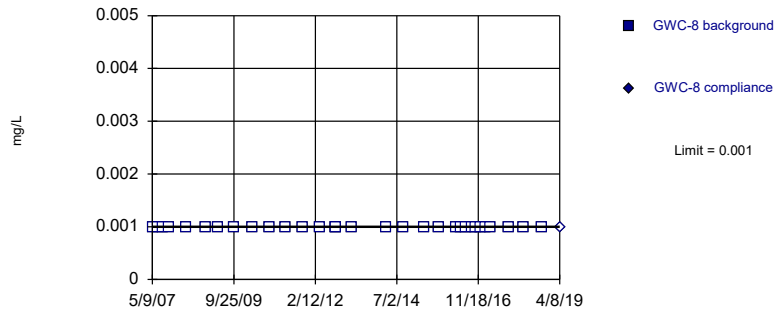


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

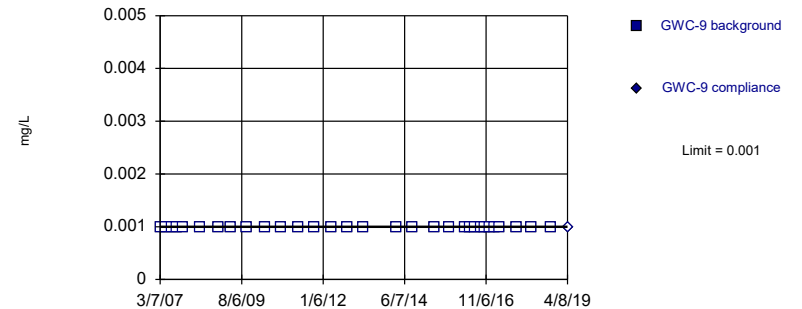


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

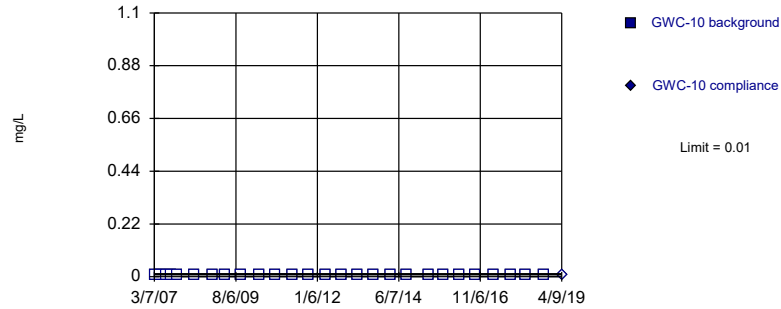


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 31) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Thallium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



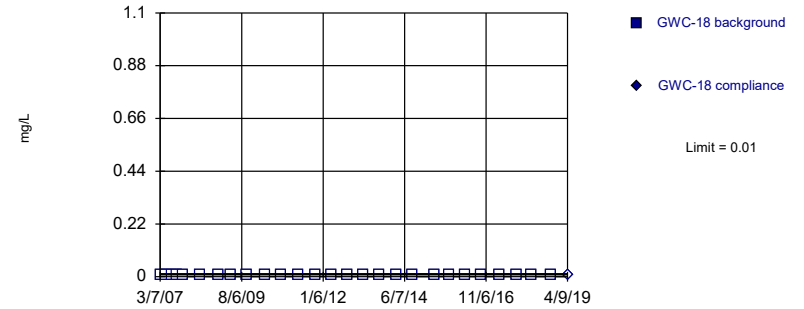
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



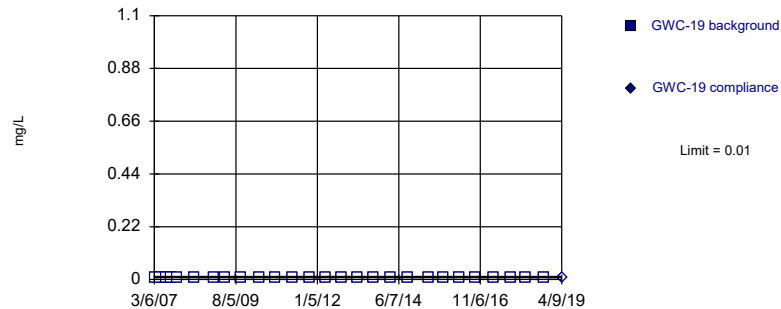
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



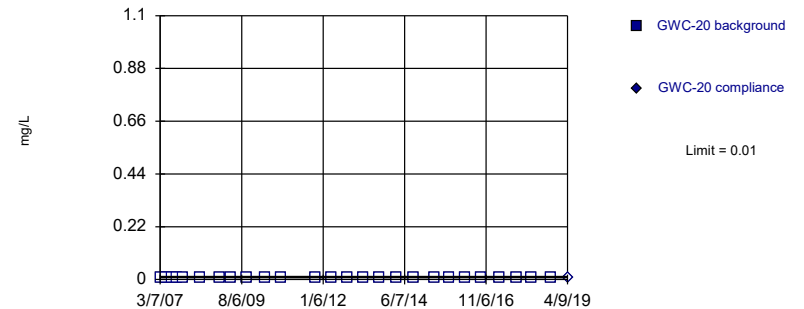
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

### Prediction Limit Intrawell Non-parametric



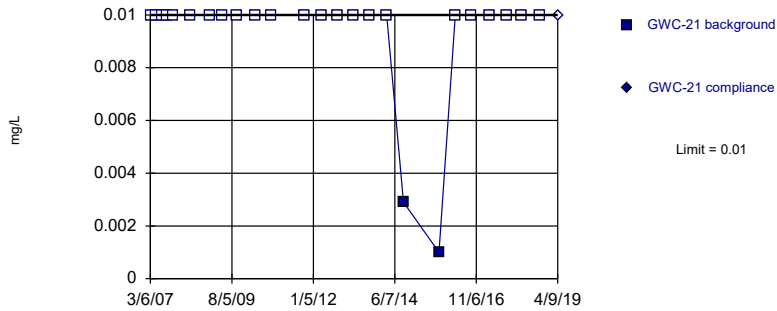
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

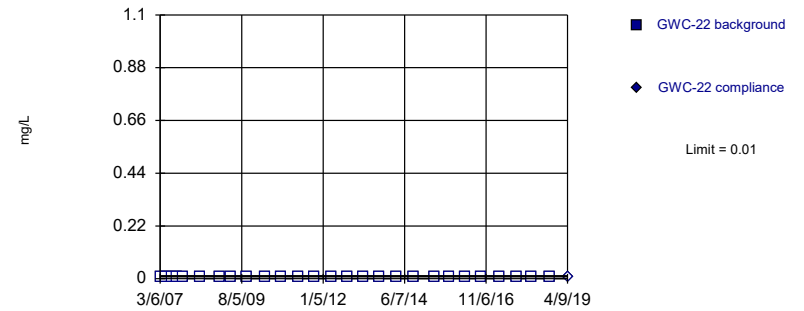


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 92% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

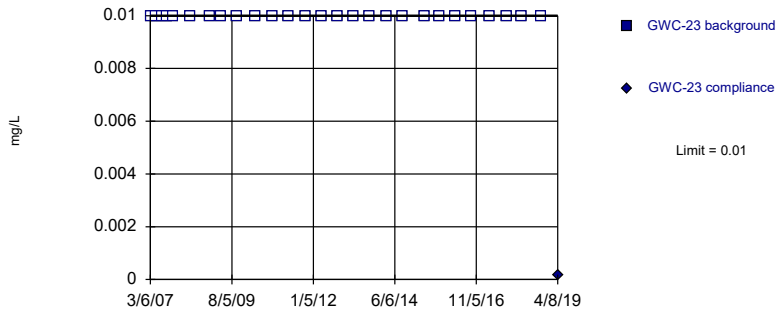


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric

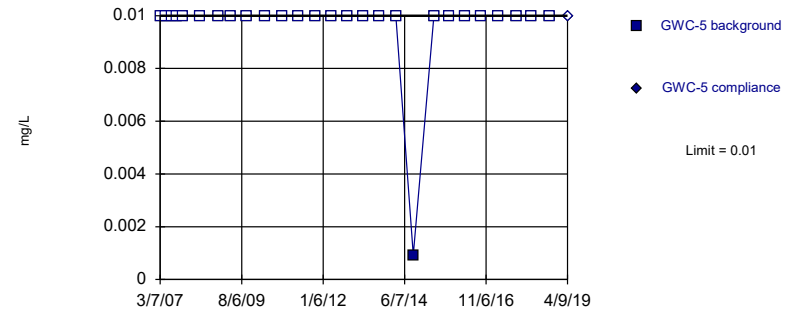


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



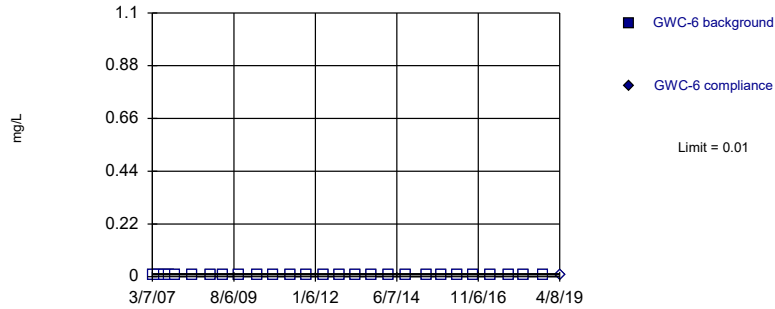
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill



Within Limit

Prediction Limit  
Intrawell Non-parametric



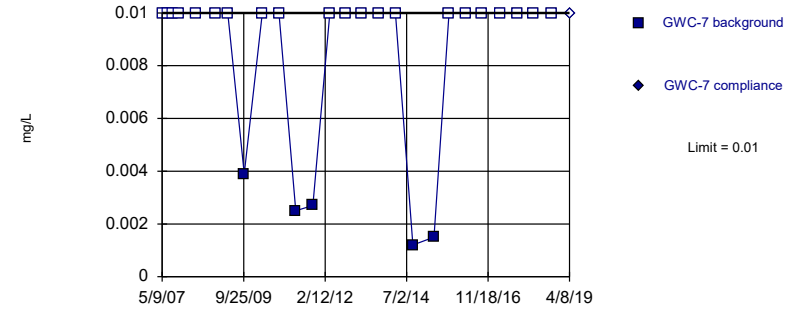
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



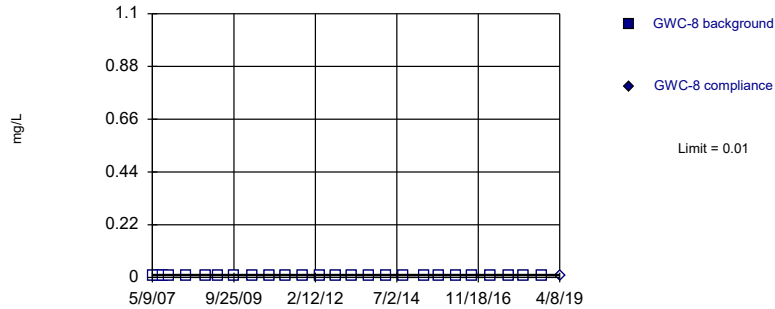
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 80.77% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



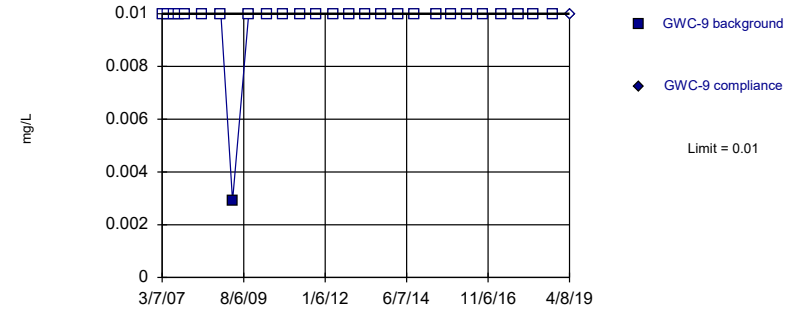
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



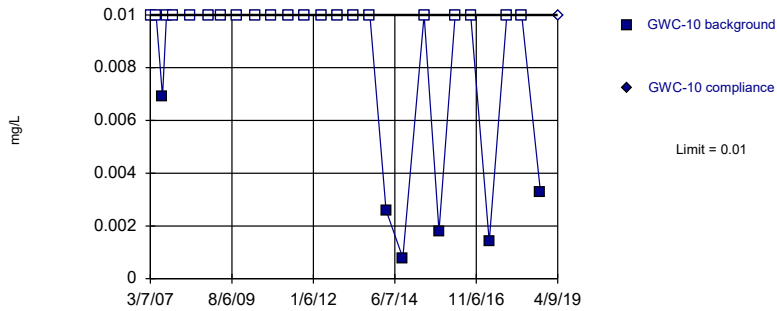
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



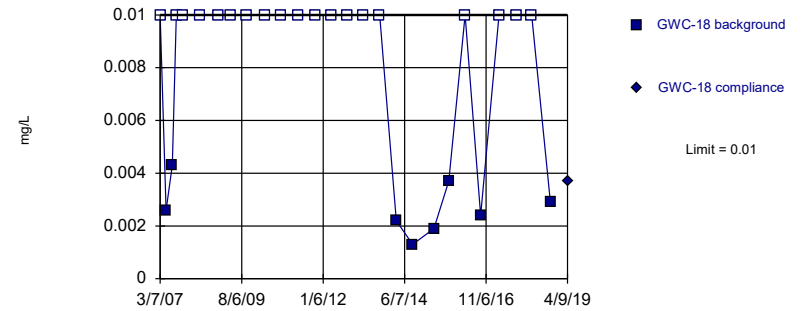
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



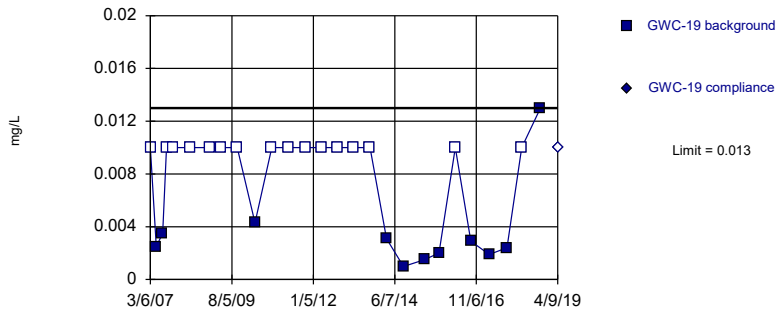
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



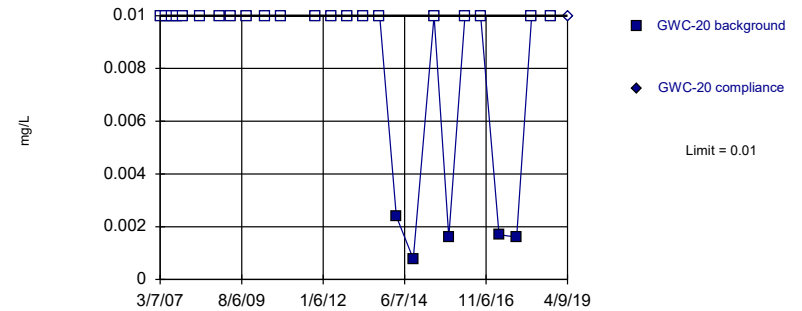
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 59.26% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



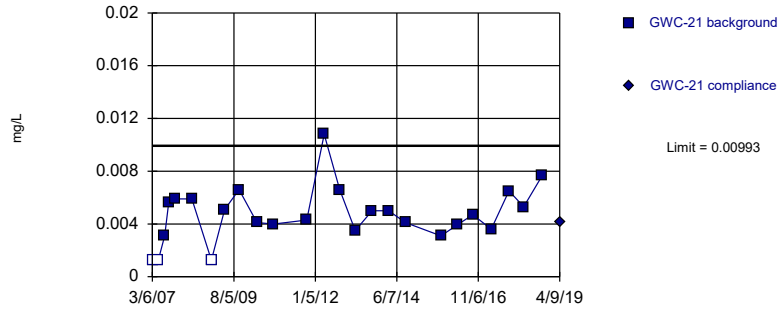
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 80.77% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



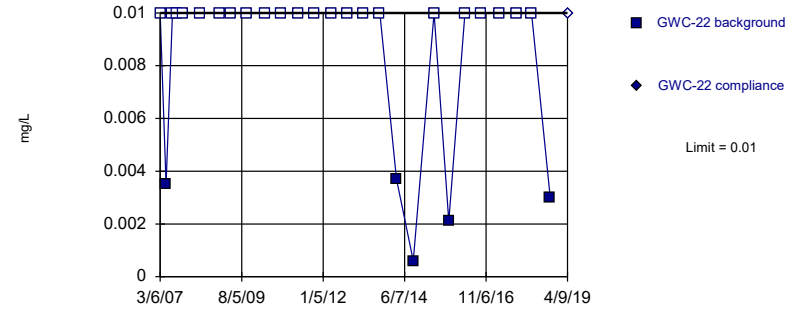
Background Data Summary: Mean=0.004727, Std. Dev.=0.002106, n=25, 12% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9426, critical = 0.888. Kappa = 2.47 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



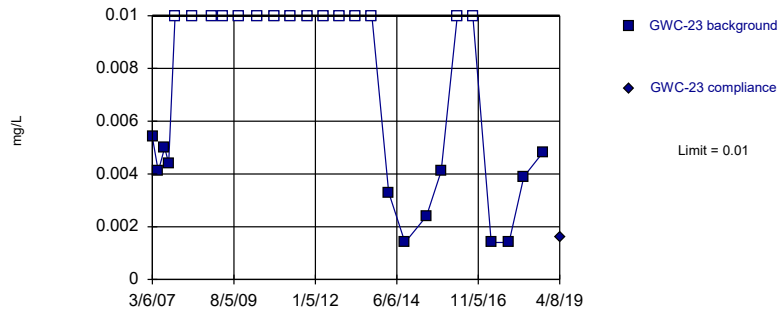
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



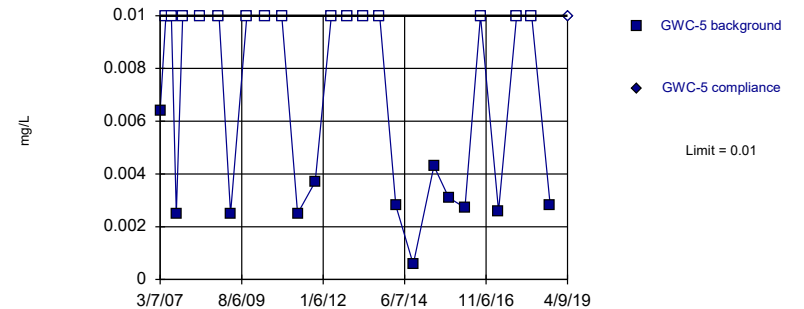
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



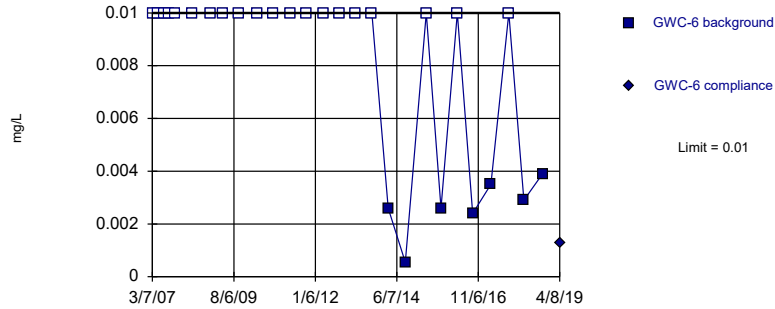
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



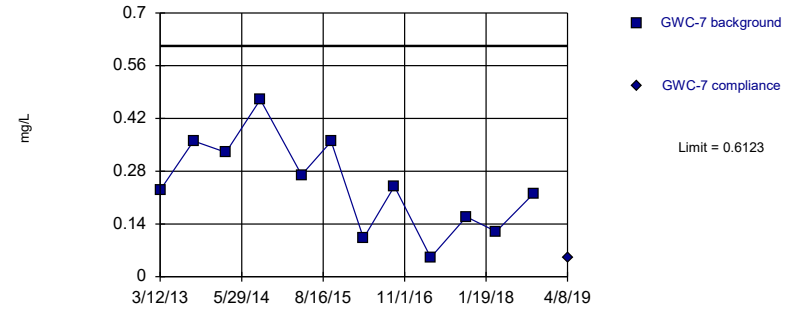
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Parametric



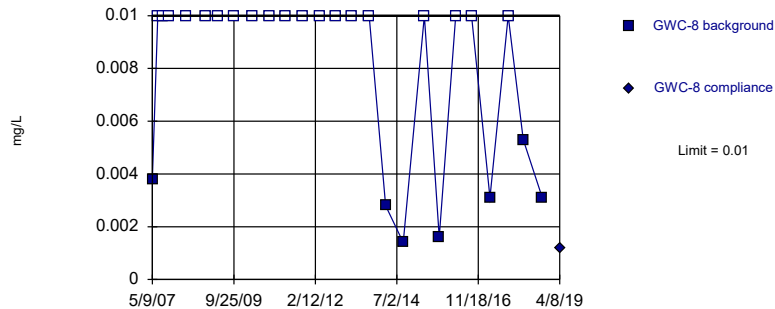
Background Data Summary: Mean=0.2426, Std. Dev.=0.123, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9762, critical = 0.805. Kappa = 3.005 (c=15, w=12, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002926.

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



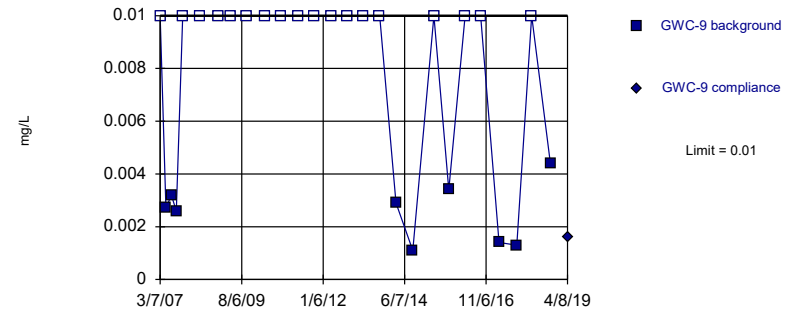
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 73.08% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Within Limit

Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Zinc Analysis Run 8/16/2019 8:38 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.003	
5/8/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/7/2007	<0.003	
5/9/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
10/1/2009	<0.003	
4/14/2010	<0.003	
10/13/2010	<0.003	
4/6/2011	<0.003	
10/4/2011	<0.003	
4/10/2012	<0.003	
9/26/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/4/2014	<0.003	
9/3/2014	<0.003	
4/21/2015	<0.003	
9/30/2015	<0.003	
3/23/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	0.0005 (J)	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/6/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/3/2008	<0.003	
4/14/2009	<0.003	
10/1/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
4/6/2011	<0.003	
10/12/2011	<0.003	
4/5/2012	<0.003	
9/19/2012	<0.003	
3/13/2013	<0.003	
9/10/2013	<0.003	
3/10/2014	<0.003	
9/3/2014	<0.003	
4/22/2015	<0.003	
9/30/2015	<0.003	
3/24/2016	<0.003	
5/18/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/8/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/16/2018	<0.003	
10/5/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/4/2008	<0.003	
4/14/2009	<0.003	
10/2/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
4/6/2011	<0.003	
10/12/2011	<0.003	
4/5/2012	<0.003	
9/25/2012	<0.003	
3/13/2013	<0.003	
9/11/2013	<0.003	
3/10/2014	<0.003	
9/9/2014	<0.003	
4/22/2015	<0.003	
9/30/2015	<0.003	
3/24/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	0.0003 (J)	
9/8/2016	<0.003	
10/18/2016	<0.003	
12/7/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/29/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/5/2008	<0.003	
4/14/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
10/12/2011	<0.003	
4/9/2012	<0.003	
9/25/2012	<0.003	
3/13/2013	<0.003	
9/11/2013	<0.003	
3/10/2014	<0.003	
9/9/2014	<0.003	
4/23/2015	<0.003	
9/30/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/7/2016	<0.003	
2/3/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/16/2018	<0.003	
10/5/2018	<0.003	
4/9/2019		<0.003



# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/29/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/5/2008	<0.003	
4/27/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
10/5/2011	<0.003	
4/10/2012	<0.003	
9/26/2012	<0.003	
3/13/2013	<0.003	
9/11/2013	<0.003	
3/11/2014	<0.003	
9/9/2014	<0.003	
9/30/2015	<0.003	
3/24/2016	<0.003	
5/18/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/7/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/29/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/5/2008	<0.003	
4/14/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
4/6/2011	<0.003	
10/5/2011	<0.003	
4/9/2012	<0.003	
9/25/2012	<0.003	
3/13/2013	<0.003	
9/11/2013	<0.003	
3/11/2014	<0.003	
9/9/2014	<0.003	
4/23/2015	<0.003	
9/30/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/7/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/29/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/5/2008	<0.003	
4/14/2009	<0.003	
10/1/2009	<0.003	
4/14/2010	<0.003	
10/13/2010	<0.003	
4/6/2011	<0.003	
10/12/2011	<0.003	
4/9/2012	<0.003	
9/19/2012	<0.003	
3/13/2013	<0.003	
9/10/2013	<0.003	
3/11/2014	<0.003	
9/3/2014	<0.003	
4/23/2015	<0.003	
9/30/2015	<0.003	
3/23/2016	<0.003	
5/19/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/7/2016	<0.003	
2/3/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/5/2018	<0.003	
4/8/2019		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.003	
5/8/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/1/2009	<0.003	
4/14/2010	<0.003	
10/14/2010	<0.003	
4/5/2011	<0.003	
10/12/2011	<0.003	
4/4/2012	<0.003	
9/24/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/9/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	0.0004 (J)	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/1/2017	<0.003	
3/23/2017	<0.003	
10/4/2017	<0.003	
3/16/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/1/2009	<0.003	
4/13/2010	<0.003	
10/6/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	<0.003	
9/18/2012	<0.003	
3/12/2013	<0.003	
9/9/2013	<0.003	
3/5/2014	<0.003	
9/8/2014	<0.003	
4/22/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	0.0005 (J)	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/1/2017	<0.003	
3/23/2017	<0.003	
10/4/2017	<0.003	
3/16/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
10/1/2009	<0.003	
4/13/2010	<0.003	
10/7/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	<0.003	
9/18/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/8/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	0.0013 (J)	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/2/2017	<0.003	
3/24/2017	<0.003	
10/4/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	0.0064 (o)	
5/8/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/13/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	<0.003	
9/19/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/9/2014	<0.003	
4/22/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	0.0002 (J)	
9/8/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/2/2017	<0.003	
3/24/2017	<0.003	
10/5/2017	<0.003	
3/14/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003

# Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.003	
5/8/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/13/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/4/2012	<0.003	
9/19/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/3/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/8/2016	0.0012 (J)	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/5/2018	<0.003	
4/8/2019		<0.003



# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/9/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/13/2010	<0.005	
4/6/2011	<0.005	
10/4/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/4/2014	<0.005	
9/3/2014	<0.005	
4/21/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/6/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/3/2008	<0.005	
4/14/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/5/2012	<0.005	
9/19/2012	<0.005	
3/13/2013	<0.005	
9/10/2013	<0.005	
3/10/2014	<0.005	
9/3/2014	<0.005	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/8/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	0.0005 (J)	
10/5/2017	<0.005	
3/16/2018	<0.005	
10/5/2018	<0.005	
4/9/2019		0.00063 (J)

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/4/2008	<0.005	
4/14/2009	<0.005	
10/2/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/5/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/10/2014	<0.005	
9/9/2014	<0.005	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	<0.005	
9/8/2016	<0.005	
10/18/2016	<0.005	
12/7/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
10/12/2011	<0.005	
4/9/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/10/2014	<0.005	
9/9/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/3/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/16/2018	<0.005	
10/5/2018	<0.005	
4/9/2019		<0.005

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/27/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
10/5/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/11/2014	<0.005	
9/9/2014	<0.005	
9/30/2015	0.0023 (J)	
3/24/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	0.0012 (J)	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	0.001 (J)	
3/15/2018	<0.005	
10/4/2018	0.0034 (J)	
4/9/2019		0.0018 (J)

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/5/2011	<0.005	
4/9/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/11/2014	<0.005	
9/9/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/13/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/9/2012	<0.005	
9/19/2012	<0.005	
3/13/2013	<0.005	
9/10/2013	<0.005	
3/11/2014	<0.005	
9/3/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/19/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/3/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/5/2018	<0.005	
4/8/2019		0.00034 (J)

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.005	
5/8/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/14/2010	<0.005	
4/5/2011	<0.005	
10/12/2011	<0.005	
4/4/2012	<0.005	
9/24/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	0.0017 (J)	
9/9/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/1/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	0.0006 (J)	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005



# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/6/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/9/2013	<0.005	
3/5/2014	<0.005	
9/8/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/1/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	0.038 (o)	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/7/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	0.0053	
3/5/2014	0.0052	
9/8/2014	0.0058	
4/21/2015	0.0088	
9/29/2015	0.0086	
3/23/2016	0.00693	
5/18/2016	0.00451 (J)	
7/6/2016	0.0063	
9/7/2016	0.0065	
10/18/2016	0.0056	
12/8/2016	0.0065	
2/2/2017	0.002 (J)	
3/24/2017	0.0027 (J)	
10/4/2017	0.0056	
3/15/2018	0.0037 (J)	
10/4/2018	0.0049 (J)	
4/8/2019		0.0057

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/13/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	0.0022 (J)	
9/9/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	<0.005	
9/8/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/2/2017	<0.005	
3/24/2017	0.0005 (J)	
10/5/2017	0.0008 (J)	
3/14/2018	0.00064 (J)	
10/4/2018	<0.005	
4/8/2019		0.0015 (J)

# Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.005	
5/8/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/13/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/4/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/3/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/8/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/5/2018	<0.005	
4/8/2019		<0.005

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	0.15	
5/8/2007	0.14	
7/17/2007	0.1	
8/28/2007	0.1	
11/7/2007	0.11	
5/9/2008	0.15	
12/2/2008	0.11	
4/8/2009	0.16	
10/1/2009	0.11	
4/14/2010	0.15	
10/13/2010	0.1	
4/6/2011	0.13	
10/4/2011	0.089	
4/10/2012	0.126	
9/26/2012	0.093	
3/12/2013	0.13	
9/10/2013	0.14	
3/4/2014	0.11	
9/3/2014	0.1	
4/21/2015	0.14	
9/30/2015	0.096	
3/23/2016	0.132	
5/17/2016	0.122	
7/6/2016	0.101	
9/7/2016	0.0985	
10/18/2016	0.104	
12/6/2016	0.1	
2/2/2017	0.147	
3/27/2017	0.158	
10/5/2017	0.106	
3/15/2018	0.18	
5/15/2018	0.16	
10/4/2018	0.2	
4/9/2019		0.17

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	0.072	
5/9/2007	0.063	
7/17/2007	0.058	
8/28/2007	0.06	
11/7/2007	0.072	
5/7/2008	0.076	
12/3/2008	0.066	
4/14/2009	0.08	
10/1/2009	0.074	
4/13/2010	0.062	
10/12/2010	0.078	
4/6/2011	0.066	
10/12/2011	0.071	
4/5/2012	0.0675	
9/19/2012	0.073	
3/13/2013	0.075	
9/10/2013	0.081	
3/10/2014	0.064	
9/3/2014	0.078	
4/22/2015	0.067	
9/30/2015	0.075	
3/24/2016	0.0818	
5/18/2016	0.0763	
7/7/2016	0.0747	
9/8/2016	0.081	
10/19/2016	0.084	
12/8/2016	0.0799	
2/2/2017	0.0813	
3/27/2017	0.0714	
10/5/2017	0.0755	
3/16/2018	0.074	
10/5/2018	0.081	
4/9/2019		0.081

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	0.088	
5/9/2007	0.07	
7/17/2007	0.063	
8/28/2007	0.066	
11/7/2007	0.07	
5/7/2008	0.071	
12/4/2008	0.068	
4/14/2009	0.076	
10/2/2009	0.07	
4/13/2010	0.085	
10/12/2010	0.075	
4/6/2011	0.077	
10/12/2011	0.12	
4/5/2012	0.143	
9/25/2012	0.13	
3/13/2013	0.14	
9/11/2013	0.15	
3/10/2014	0.13	
9/9/2014	0.16	
4/22/2015	0.15	
9/30/2015	0.15	
3/24/2016	0.152	
5/18/2016	0.146	
7/6/2016	0.152	
9/8/2016	0.142	
10/18/2016	0.145	
12/7/2016	0.133	
2/2/2017	0.14	
3/27/2017	0.152	
10/5/2017	0.142	
3/15/2018	0.14	
10/4/2018	0.16	
4/9/2019		0.15

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	0.11	
5/9/2007	0.082	
7/17/2007	0.078	
8/29/2007	0.096	
11/7/2007	0.1	
5/7/2008	0.11	
12/5/2008	0.11	
4/14/2009	0.11	
9/30/2009	0.12	
4/13/2010	0.11	
10/12/2010	0.12	
10/12/2011	0.11	
4/9/2012	0.13	
9/25/2012	0.13	
3/13/2013	0.12	
9/11/2013	0.12	
3/10/2014	0.11	
9/9/2014	0.11	
4/23/2015	0.11	
9/30/2015	0.11	
3/23/2016	0.115	
5/18/2016	0.128	
7/7/2016	0.124	
9/8/2016	0.121	
10/19/2016	0.117	
12/7/2016	0.11	
2/3/2017	0.123	
3/27/2017	0.112	
10/5/2017	0.128	
3/16/2018	0.12	
10/5/2018	0.12	
4/9/2019		0.13



# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	0.038	
5/9/2007	0.046	
7/17/2007	0.06	
8/29/2007	0.07	
11/7/2007	0.055	
5/7/2008	0.032	
12/5/2008	0.06	
4/27/2009	0.032	
9/30/2009	0.046	
4/13/2010	0.035	
10/12/2010	0.15	
10/5/2011	0.055	
4/10/2012	0.0399	
9/26/2012	0.093	
3/13/2013	0.066	
9/11/2013	0.053	
3/11/2014	0.039	
9/9/2014	0.14	
9/30/2015	0.15	
3/24/2016	0.046	
5/18/2016	0.0557	
7/7/2016	0.0596	
9/8/2016	0.184	
10/19/2016	0.186	
12/7/2016	0.174	
2/2/2017	0.0783	
3/27/2017	0.0363	
10/5/2017	0.0562	
3/15/2018	0.086	
10/4/2018	0.079	
4/9/2019		0.05

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	0.023	
5/9/2007	0.034	
7/17/2007	0.034	
8/29/2007	0.048	
11/7/2007	0.042	
5/7/2008	0.078	
12/5/2008	0.067	
4/14/2009	0.083	
9/30/2009	0.086	
4/13/2010	0.087	
10/12/2010	0.082	
4/6/2011	0.082	
10/5/2011	0.082	
4/9/2012	0.0959	
9/25/2012	0.09	
3/13/2013	0.092	
9/11/2013	0.096	
3/11/2014	0.085	
9/9/2014	0.096	
4/23/2015	0.093	
9/30/2015	0.096	
3/23/2016	0.0938	
5/18/2016	0.0983	
7/7/2016	0.121	
9/8/2016	0.0917	
10/19/2016	0.091	
12/7/2016	0.0868	
2/2/2017	0.0939	
3/27/2017	0.0905	
10/5/2017	0.0945	
3/15/2018	0.096	
10/4/2018	0.1	
4/9/2019		0.094

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	0.05	
5/9/2007	0.055	
7/17/2007	0.048	
8/29/2007	0.056	
11/7/2007	0.07	
5/7/2008	0.063	
12/5/2008	0.068	
4/14/2009	0.062	
10/1/2009	0.064	
4/14/2010	0.048	
10/13/2010	0.071	
4/6/2011	0.042	
10/12/2011	0.066	
4/9/2012	0.0628	
9/19/2012	0.073	
3/13/2013	0.057	
9/10/2013	0.066	
3/11/2014	0.054	
9/3/2014	0.06	
4/23/2015	0.06	
9/30/2015	0.076	
3/23/2016	0.0533	
5/19/2016	0.074	
7/7/2016	0.0766	
9/8/2016	0.0726	
10/19/2016	0.072	
12/7/2016	0.0732	
2/3/2017	0.0619	
3/27/2017	0.0602	
10/5/2017	0.0734	
3/15/2018	0.053	
10/5/2018	0.065	
4/8/2019		0.059

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	0.1	
5/8/2007	0.11	
7/6/2007	0.11	
8/28/2007	0.1	
11/6/2007	0.1	
5/8/2008	0.11	
12/3/2008	0.091	
4/7/2009	0.094	
10/1/2009	0.097	
4/14/2010	0.096	
10/14/2010	0.1	
4/5/2011	0.092	
10/12/2011	0.12	
4/4/2012	0.105	
9/24/2012	0.13	
3/12/2013	0.1	
9/10/2013	0.13	
3/5/2014	0.084	
9/9/2014	0.11	
4/21/2015	0.11	
9/29/2015	0.097	
3/23/2016	0.0993	
5/17/2016	0.104	
7/6/2016	0.104	
9/7/2016	0.0945	
10/18/2016	0.0928	
12/8/2016	0.1	
2/1/2017	0.0972	
3/23/2017	0.105	
10/4/2017	0.102	
3/16/2018	0.091	
10/4/2018	0.084	
4/9/2019		0.067

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	0.057	
5/9/2007	0.054	
7/17/2007	0.059	
8/28/2007	0.061	
11/6/2007	0.074	
5/8/2008	0.079	
12/3/2008	0.1	
4/7/2009	0.091	
10/1/2009	0.092	
4/13/2010	0.095	
10/6/2010	0.11	
4/5/2011	0.1	
10/4/2011	0.11	
4/3/2012	0.116	
9/18/2012	0.12	
3/12/2013	0.11	
9/9/2013	0.13	
3/5/2014	0.12	
9/8/2014	0.13	
4/22/2015	0.14	
9/29/2015	0.14	
3/23/2016	0.156	
5/17/2016	0.168	
7/6/2016	0.171	
9/7/2016	0.154	
10/18/2016	0.159	
12/8/2016	0.156	
2/1/2017	0.163	
3/23/2017	0.161	
10/4/2017	0.171	
3/16/2018	0.17	
10/4/2018	0.19	
4/8/2019		0.15

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	0.011	
7/6/2007	0.0065	
8/28/2007	0.0095	
11/6/2007	0.013	
5/8/2008	0.011	
12/2/2008	0.011	
4/8/2009	0.0091	
10/1/2009	0.0098	
4/13/2010	0.0084	
10/7/2010	0.01	
4/5/2011	0.015	
10/4/2011	0.01	
4/3/2012	0.0426	
9/18/2012	0.02	
3/12/2013	0.35	
9/10/2013	0.11	
3/5/2014	0.054	
9/8/2014	0.044	
4/21/2015	0.065	
9/29/2015	0.036	
3/23/2016	0.263	
5/18/2016	0.245	
7/6/2016	0.117	
9/7/2016	0.0703	
10/18/2016	0.068	
12/8/2016	0.0791	
2/2/2017	0.17	
3/24/2017	0.181	
10/4/2017	0.0937	
3/15/2018	0.15	
10/4/2018	0.08	
4/8/2019		0.24

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	0.13	
7/6/2007	0.12	
8/28/2007	0.11	
11/6/2007	0.1	
5/8/2008	0.1	
12/2/2008	0.11	
4/8/2009	0.1	
9/30/2009	0.099	
4/13/2010	0.098	
10/13/2010	0.092	
4/5/2011	0.085	
10/4/2011	0.091	
4/3/2012	0.101	
9/19/2012	0.1	
3/12/2013	0.098	
9/10/2013	0.11	
3/5/2014	0.087	
9/9/2014	0.1	
4/22/2015	0.095	
9/29/2015	0.093	
3/23/2016	0.0918	
5/18/2016	0.0957	
7/6/2016	0.0935	
9/8/2016	0.0925	
10/18/2016	0.0939	
12/8/2016	0.0996	
2/2/2017	0.096	
3/24/2017	0.106	
10/5/2017	0.103	
3/14/2018	0.1	
10/4/2018	0.11	
4/8/2019		0.13
6/18/2019		0.17

# Prediction Limit

Constituent: Barium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	0.059	
5/8/2007	0.055	
7/6/2007	0.052	
8/28/2007	0.047	
11/6/2007	0.048	
5/8/2008	0.052	
12/2/2008	0.056	
4/8/2009	0.057	
9/30/2009	0.055	
4/13/2010	0.053	
10/13/2010	0.054	
4/5/2011	0.035	
10/4/2011	0.058	
4/4/2012	0.0632	
9/19/2012	0.061	
3/12/2013	0.056	
9/10/2013	0.067	
3/5/2014	0.055	
9/3/2014	0.051	
4/21/2015	0.059	
9/29/2015	0.06	
3/23/2016	0.0636	
5/18/2016	0.0629	
7/6/2016	0.0646	
9/8/2016	0.063	
10/19/2016	0.0644	
12/8/2016	0.0648	
2/2/2017	0.0656	
3/27/2017	0.0619	
10/5/2017	0.0655	
3/15/2018	0.062	
10/5/2018	0.07	
4/8/2019		0.058



# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.003	
5/8/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/7/2007	<0.003	
5/9/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
10/1/2009	<0.003	
4/14/2010	<0.003	
10/13/2010	<0.003	
4/6/2011	<0.003	
10/4/2011	<0.003	
4/10/2012	<0.003	
9/26/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/4/2014	<0.003	
9/3/2014	<0.003	
4/21/2015	<0.003	
9/30/2015	<0.003	
3/23/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	<0.003	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/6/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/3/2008	<0.003	
4/14/2009	<0.003	
10/1/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
4/6/2011	<0.003	
10/12/2011	<0.003	
4/5/2012	<0.003	
9/19/2012	<0.003	
3/13/2013	<0.003	
9/10/2013	<0.003	
3/10/2014	<0.003	
9/3/2014	<0.003	
4/22/2015	<0.003	
9/30/2015	<0.003	
3/24/2016	<0.003	
5/18/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/8/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/16/2018	<0.003	
10/5/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/4/2008	<0.003	
4/14/2009	<0.003	
10/2/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
4/6/2011	<0.003	
10/12/2011	<0.003	
4/5/2012	<0.003	
9/25/2012	<0.003	
3/13/2013	<0.003	
9/11/2013	<0.003	
3/10/2014	<0.003	
9/9/2014	<0.003	
4/22/2015	<0.003	
9/30/2015	<0.003	
3/24/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	<0.003	
9/8/2016	<0.003	
10/18/2016	<0.003	
12/7/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/29/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/5/2008	<0.003	
4/14/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
10/12/2011	<0.003	
4/9/2012	<0.003	
9/25/2012	<0.003	
3/13/2013	<0.003	
9/11/2013	<0.003	
3/10/2014	<0.003	
9/9/2014	<0.003	
4/23/2015	<0.003	
9/30/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/7/2016	<0.003	
2/3/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/16/2018	<0.003	
10/5/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/29/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/5/2008	<0.003	
4/27/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
10/5/2011	<0.003	
4/10/2012	<0.003	
9/26/2012	<0.003	
3/13/2013	<0.003	
9/11/2013	<0.003	
3/11/2014	<0.003	
9/9/2014	<0.003	
9/30/2015	<0.003	
3/24/2016	<0.003	
5/18/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/7/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/29/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/5/2008	<0.003	
4/14/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/12/2010	<0.003	
4/6/2011	<0.003	
10/5/2011	<0.003	
4/9/2012	<0.003	
9/25/2012	<0.003	
3/13/2013	<0.003	
9/11/2013	<0.003	
3/11/2014	<0.003	
9/9/2014	<0.003	
4/23/2015	<0.003	
9/30/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/7/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/29/2007	<0.003	
11/7/2007	<0.003	
5/7/2008	<0.003	
12/5/2008	<0.003	
4/14/2009	<0.003	
10/1/2009	<0.003	
4/14/2010	<0.003	
10/13/2010	<0.003	
4/6/2011	<0.003	
10/12/2011	<0.003	
4/9/2012	<0.003	
9/19/2012	<0.003	
3/13/2013	<0.003	
9/10/2013	<0.003	
3/11/2014	<0.003	
9/3/2014	<0.003	
4/23/2015	<0.003	
9/30/2015	<0.003	
3/23/2016	<0.003	
5/19/2016	<0.003	
7/7/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/7/2016	<0.003	
2/3/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/5/2018	<0.003	
4/8/2019		<0.003

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.003	
5/8/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/1/2009	<0.003	
4/14/2010	<0.003	
10/14/2010	<0.003	
4/5/2011	<0.003	
10/12/2011	<0.003	
4/4/2012	<0.003	
9/24/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/9/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	<0.003	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/1/2017	<0.003	
3/23/2017	<0.003	
10/4/2017	<0.003	
3/16/2018	<0.003	
10/4/2018	<0.003	
4/9/2019		<0.003



# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.003	
5/9/2007	<0.003	
7/17/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/3/2008	<0.003	
4/7/2009	<0.003	
10/1/2009	<0.003	
4/13/2010	<0.003	
10/6/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	<0.003	
9/18/2012	<0.003	
3/12/2013	<0.003	
9/9/2013	<0.003	
3/5/2014	<0.003	
9/8/2014	<0.003	
4/22/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/17/2016	<0.003	
7/6/2016	<0.003	
9/7/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/1/2017	<0.003	
3/23/2017	<0.003	
10/4/2017	<0.003	
3/16/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
7/6/2007	0.093	
8/28/2007	0.057	
11/6/2007	0.036	
5/8/2008	0.013	
12/2/2008	0.01	
4/8/2009	0.0076	
10/1/2009	0.0057	
4/13/2010	0.0061	
10/7/2010	0.0039	
4/5/2011	0.0025	
10/4/2011	0.0024	
4/3/2012	0.0008	
9/18/2012	0.002	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	0.00037 (J)	
9/8/2014	0.00055 (J)	
4/21/2015	0.00033 (J)	
9/29/2015	0.00046 (J)	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	0.0002 (J)	
9/7/2016	0.0002 (J)	
10/18/2016	0.0002 (J)	
12/8/2016	0.0003 (J)	
2/2/2017	<0.003	
3/24/2017	<0.003	
10/4/2017	0.0001 (J)	
3/15/2018	<0.003	
10/4/2018	0.0002 (J)	
4/8/2019		5.8E-05 (J)

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/13/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/3/2012	<0.003	
9/19/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/9/2014	<0.003	
4/22/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	<0.003	
9/8/2016	<0.003	
10/18/2016	<0.003	
12/8/2016	<0.003	
2/2/2017	<0.003	
3/24/2017	<0.003	
10/5/2017	<0.003	
3/14/2018	<0.003	
10/4/2018	<0.003	
4/8/2019		<0.003

# Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.003	
5/8/2007	<0.003	
7/6/2007	<0.003	
8/28/2007	<0.003	
11/6/2007	<0.003	
5/8/2008	<0.003	
12/2/2008	<0.003	
4/8/2009	<0.003	
9/30/2009	<0.003	
4/13/2010	<0.003	
10/13/2010	<0.003	
4/5/2011	<0.003	
10/4/2011	<0.003	
4/4/2012	<0.003	
9/19/2012	<0.003	
3/12/2013	<0.003	
9/10/2013	<0.003	
3/5/2014	<0.003	
9/3/2014	<0.003	
4/21/2015	<0.003	
9/29/2015	<0.003	
3/23/2016	<0.003	
5/18/2016	<0.003	
7/6/2016	<0.003	
9/8/2016	<0.003	
10/19/2016	<0.003	
12/8/2016	<0.003	
2/2/2017	<0.003	
3/27/2017	<0.003	
10/5/2017	<0.003	
3/15/2018	<0.003	
10/5/2018	<0.003	
4/8/2019		<0.003

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.001	
5/8/2007	<0.001	
7/17/2007	<0.001	
8/28/2007	<0.001	
11/7/2007	<0.001	
5/9/2008	<0.001	
12/2/2008	<0.001	
4/8/2009	<0.001	
10/1/2009	<0.001	
4/14/2010	<0.001	
10/13/2010	<0.001	
4/6/2011	<0.001	
10/4/2011	<0.001	
4/10/2012	<0.001	
9/26/2012	<0.001	
3/12/2013	<0.001	
9/10/2013	<0.001	
3/4/2014	<0.001	
9/3/2014	<0.001	
4/21/2015	<0.001	
9/30/2015	<0.001	
3/23/2016	<0.001	
5/17/2016	<0.001	
7/6/2016	<0.001	
9/7/2016	<0.001	
10/18/2016	<0.001	
12/6/2016	<0.001	
2/2/2017	9E-05 (J)	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/28/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/3/2008	<0.001	
4/14/2009	<0.001	
10/1/2009	<0.001	
4/13/2010	<0.001	
10/12/2010	<0.001	
4/6/2011	<0.001	
10/12/2011	<0.001	
4/5/2012	<0.001	
9/19/2012	<0.001	
3/13/2013	<0.001	
9/10/2013	<0.001	
3/10/2014	<0.001	
9/3/2014	<0.001	
4/22/2015	<0.001	
9/30/2015	<0.001	
3/24/2016	<0.001	
5/18/2016	<0.001	
7/7/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/8/2016	<0.001	
2/2/2017	8E-05 (J)	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/16/2018	<0.001	
10/5/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/28/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/4/2008	<0.001	
4/14/2009	<0.001	
10/2/2009	<0.001	
4/13/2010	<0.001	
10/12/2010	<0.001	
4/6/2011	<0.001	
10/12/2011	<0.001	
4/5/2012	<0.001	
9/25/2012	<0.001	
3/13/2013	<0.001	
9/11/2013	<0.001	
3/10/2014	<0.001	
9/9/2014	<0.001	
4/22/2015	<0.001	
9/30/2015	<0.001	
3/24/2016	<0.001	
5/18/2016	<0.001	
7/6/2016	<0.001	
9/8/2016	<0.001	
10/18/2016	<0.001	
12/7/2016	<0.001	
2/2/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/29/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/5/2008	<0.001	
4/14/2009	<0.001	
9/30/2009	<0.001	
4/13/2010	<0.001	
10/12/2010	<0.001	
10/12/2011	<0.001	
4/9/2012	<0.001	
9/25/2012	<0.001	
3/13/2013	<0.001	
9/11/2013	<0.001	
3/10/2014	<0.001	
9/9/2014	<0.001	
4/23/2015	<0.001	
9/30/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/7/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/7/2016	<0.001	
2/3/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/16/2018	<0.001	
10/5/2018	0.00011 (J)	
4/9/2019		<0.001



# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/29/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/5/2008	<0.001	
4/27/2009	<0.001	
9/30/2009	<0.001	
4/13/2010	<0.001	
10/12/2010	<0.001	
10/5/2011	<0.001	
4/10/2012	<0.001	
9/26/2012	<0.001	
3/13/2013	<0.001	
9/11/2013	<0.001	
3/11/2014	<0.001	
9/9/2014	<0.001	
9/30/2015	<0.001	
3/24/2016	<0.001	
5/18/2016	<0.001	
7/7/2016	0.0001 (J)	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/7/2016	<0.001	
2/2/2017	0.0001 (J)	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/29/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/5/2008	<0.001	
4/14/2009	<0.001	
9/30/2009	<0.001	
4/13/2010	<0.001	
10/12/2010	<0.001	
4/6/2011	<0.001	
10/5/2011	<0.001	
4/9/2012	<0.001	
9/25/2012	<0.001	
3/13/2013	<0.001	
9/11/2013	<0.001	
3/11/2014	<0.001	
9/9/2014	<0.001	
4/23/2015	<0.001	
9/30/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/7/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/7/2016	<0.001	
2/2/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/29/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/5/2008	<0.001	
4/14/2009	<0.001	
10/1/2009	<0.001	
4/14/2010	<0.001	
10/13/2010	<0.001	
4/6/2011	<0.001	
10/12/2011	<0.001	
4/9/2012	<0.001	
9/19/2012	<0.001	
3/13/2013	<0.001	
9/10/2013	<0.001	
3/11/2014	<0.001	
9/3/2014	<0.001	
4/23/2015	<0.001	
9/30/2015	<0.001	
3/23/2016	<0.001	
5/19/2016	<0.001	
7/7/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/7/2016	<0.001	
2/3/2017	8E-05 (J)	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/5/2018	<0.001	
4/8/2019		<0.001

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	0.0015	
5/8/2007	<0.001	
7/6/2007	<0.001	
8/28/2007	<0.001	
11/6/2007	<0.001	
5/8/2008	<0.001	
12/3/2008	<0.001	
4/7/2009	<0.001	
10/1/2009	<0.001	
4/14/2010	<0.001	
10/14/2010	<0.001	
4/5/2011	<0.001	
10/12/2011	<0.001	
4/4/2012	<0.001	
9/24/2012	<0.001	
3/12/2013	<0.001	
9/10/2013	<0.001	
3/5/2014	<0.001	
9/9/2014	<0.001	
4/21/2015	<0.001	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/17/2016	<0.001	
7/6/2016	<0.001	
9/7/2016	<0.001	
10/18/2016	<0.001	
12/8/2016	<0.001	
2/1/2017	<0.001	
3/23/2017	<0.001	
10/4/2017	<0.001	
3/16/2018	<0.001	
10/4/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/28/2007	<0.001	
11/6/2007	<0.001	
5/8/2008	<0.001	
12/3/2008	<0.001	
4/7/2009	<0.001	
10/1/2009	<0.001	
4/13/2010	<0.001	
10/6/2010	<0.001	
4/5/2011	<0.001	
10/4/2011	<0.001	
4/3/2012	<0.001	
9/18/2012	<0.001	
3/12/2013	<0.001	
9/9/2013	<0.001	
3/5/2014	<0.001	
9/8/2014	<0.001	
4/22/2015	<0.001	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/17/2016	<0.001	
7/6/2016	<0.001	
9/7/2016	<0.001	
10/18/2016	<0.001	
12/8/2016	<0.001	
2/1/2017	<0.001	
3/23/2017	<0.001	
10/4/2017	<0.001	
3/16/2018	<0.001	
10/4/2018	<0.001	
4/8/2019		<0.001

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	0.023 (o)	
7/6/2007	0.0081	
8/28/2007	0.0035	
11/6/2007	0.0028	
5/8/2008	<0.001	
12/2/2008	<0.001	
4/8/2009	0.0013	
10/1/2009	<0.001	
4/13/2010	<0.001	
10/7/2010	<0.001	
4/5/2011	<0.001	
10/4/2011	<0.001	
4/3/2012	<0.001	
9/18/2012	<0.001	
3/12/2013	<0.001	
9/10/2013	<0.001	
3/5/2014	<0.001	
9/8/2014	<0.001	
4/21/2015	0.0015	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/6/2016	<0.001	
9/7/2016	<0.001	
10/18/2016	<0.001	
12/8/2016	<0.001	
2/2/2017	0.0001 (J)	
3/24/2017	<0.001	
10/4/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/8/2019		<0.001

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.001	
7/6/2007	<0.001	
8/28/2007	<0.001	
11/6/2007	<0.001	
5/8/2008	<0.001	
12/2/2008	<0.001	
4/8/2009	<0.001	
9/30/2009	<0.001	
4/13/2010	<0.001	
10/13/2010	<0.001	
4/5/2011	<0.001	
10/4/2011	<0.001	
4/3/2012	<0.001	
9/19/2012	<0.001	
3/12/2013	<0.001	
9/10/2013	<0.001	
3/5/2014	<0.001	
9/9/2014	<0.001	
4/22/2015	<0.001	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/6/2016	<0.001	
9/8/2016	<0.001	
10/18/2016	<0.001	
12/8/2016	<0.001	
2/2/2017	8E-05 (J)	
3/24/2017	<0.001	
10/5/2017	<0.001	
3/14/2018	<0.001	
10/4/2018	<0.001	
4/8/2019		<0.001

# Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.001	
5/8/2007	<0.001	
7/6/2007	<0.001	
8/28/2007	<0.001	
11/6/2007	<0.001	
5/8/2008	<0.001	
12/2/2008	<0.001	
4/8/2009	<0.001	
9/30/2009	<0.001	
4/13/2010	<0.001	
10/13/2010	<0.001	
4/5/2011	<0.001	
10/4/2011	<0.001	
4/4/2012	<0.001	
9/19/2012	<0.001	
3/12/2013	<0.001	
9/10/2013	<0.001	
3/5/2014	<0.001	
9/3/2014	<0.001	
4/21/2015	0.00029 (J)	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/6/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/8/2016	<0.001	
2/2/2017	8E-05 (J)	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/5/2018	<0.001	
4/8/2019		<0.001



# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	0.00424 (J)	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	0.0013 (J)	
2/2/2017	0.001 (J)	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/3/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/10/2014	<0.01	
9/3/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/4/2008	<0.01	
4/14/2009	<0.01	
10/2/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/18/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	0.0012 (J)	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	0.0016	
11/7/2007	0.0016	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	0.0064 (J)	
12/7/2016	<0.01	
2/3/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/27/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/5/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	<0.01	
9/9/2014	0.0015	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.01	
5/9/2007	0.002	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	0.0013	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/5/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		0.0023 (J)

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.01	
5/9/2007	0.0013	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/3/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/19/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/3/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/1/2017	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01



# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/6/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/9/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/1/2017	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	0.11 (o)	
7/6/2007	0.0029	
8/28/2007	0.0038	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	0.0016	
4/13/2010	<0.01	
10/7/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	0.0018	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/24/2017	0.0011 (J)	
10/4/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	0.0035	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	0.0017	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/24/2017	<0.01	
10/5/2017	0.0005 (J)	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	0.0013	
7/6/2007	<0.01	
8/28/2007	0.0014	
11/6/2007	0.0024	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/3/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/10/2014	<0.01	
9/3/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/4/2008	<0.01	
4/14/2009	<0.01	
10/2/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/18/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/3/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01



# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/27/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/5/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	0.0033	
3/13/2013	<0.01	
9/11/2013	0.0018	
3/11/2014	0.00029 (J)	
9/9/2014	0.0011 (J)	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	0.0016 (J)	
9/8/2016	0.0006 (J)	
10/19/2016	0.0006 (J)	
12/7/2016	0.0006 (J)	
2/2/2017	<0.01	
3/27/2017	0.001 (J)	
10/5/2017	0.0051 (J)	
3/15/2018	<0.01	
10/4/2018	0.0065 (J)	
4/9/2019		0.0023 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/5/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/3/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/19/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/3/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	0.00058 (J)	
4/8/2019		0.00046 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/1/2017	<0.01	
3/23/2017	0.0007 (J)	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/6/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/9/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/1/2017	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		0.00022 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	6.5 (o)	
7/6/2007	2.1 (o)	
8/28/2007	1.4 (o)	
11/6/2007	1.1 (o)	
5/8/2008	0.75	
12/2/2008	0.41	
4/8/2009	0.38	
10/1/2009	0.29	
4/13/2010	0.26	
10/7/2010	0.24	
4/5/2011	0.17	
10/4/2011	0.19	
4/3/2012	0.114	
9/18/2012	0.14	
3/12/2013	0.041	
9/10/2013	0.06	
3/5/2014	0.049	
9/8/2014	0.068	
4/21/2015	0.043	
9/29/2015	0.0525	
3/23/2016	0.0172	
5/18/2016	0.021	
7/6/2016	0.0278	
9/7/2016	0.0334	
10/18/2016	0.0368	
12/8/2016	0.0419	
2/2/2017	0.0113	
3/24/2017	0.0094 (J)	
10/4/2017	0.0237	
3/15/2018	0.014	
10/4/2018	0.024	
4/8/2019		0.0086 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/24/2017	<0.01	
10/5/2017	0.0003 (J)	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		0.0017 (J)

# Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	0.0004 (J)	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	0.0004 (J)	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		0.00041 (J)



# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	0.0025	
5/8/2007	<0.025	
7/17/2007	<0.025	
8/28/2007	<0.025	
11/7/2007	<0.025	
5/9/2008	<0.025	
12/2/2008	<0.025	
4/8/2009	<0.025	
10/1/2009	<0.025	
4/14/2010	<0.025	
10/13/2010	<0.025	
4/6/2011	<0.025	
10/12/2011	<0.025	
4/10/2012	<0.025	
9/26/2012	<0.025	
3/12/2013	<0.025	
9/10/2013	<0.025	
3/4/2014	<0.025	
9/3/2014	<0.025	
4/21/2015	<0.025	
9/30/2015	<0.025	
3/23/2016	<0.025	
9/7/2016	<0.025	
3/27/2017	<0.025	
10/5/2017	<0.025	
3/15/2018	<0.025	
10/4/2018	<0.025	
4/9/2019		<0.025

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.025	
5/9/2007	<0.025	
7/17/2007	<0.025	
8/28/2007	<0.025	
11/7/2007	0.0029	
5/7/2008	<0.025	
12/3/2008	<0.025	
4/14/2009	<0.025	
10/1/2009	<0.025	
4/13/2010	<0.025	
10/12/2010	<0.025	
4/6/2011	<0.025	
10/12/2011	<0.025	
4/5/2012	<0.025	
9/19/2012	<0.025	
3/13/2013	<0.025	
9/10/2013	<0.025	
3/10/2014	<0.025	
9/3/2014	0.00099 (J)	
4/22/2015	<0.025	
9/30/2015	<0.025	
3/24/2016	<0.025	
9/8/2016	<0.025	
3/27/2017	<0.025	
10/5/2017	<0.025	
3/16/2018	<0.025	
10/5/2018	<0.025	
4/9/2019		<0.025

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.025	
5/9/2007	<0.025	
7/17/2007	<0.025	
8/28/2007	<0.025	
11/7/2007	0.0035	
5/7/2008	<0.025	
12/4/2008	<0.025	
4/14/2009	<0.025	
10/2/2009	<0.025	
4/13/2010	<0.025	
10/12/2010	<0.025	
4/6/2011	<0.025	
10/12/2011	<0.025	
4/5/2012	<0.025	
9/25/2012	<0.025	
3/13/2013	<0.025	
9/11/2013	<0.025	
3/10/2014	<0.025	
9/9/2014	<0.025	
4/22/2015	<0.025	
9/30/2015	<0.025	
3/24/2016	<0.025	
9/8/2016	<0.025	
3/27/2017	0.0004 (J)	
10/5/2017	0.0005 (J)	
3/15/2018	<0.025	
10/4/2018	<0.025	
4/9/2019		0.0014 (J)

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.025	
5/9/2007	<0.025	
7/17/2007	<0.025	
8/29/2007	<0.025	
11/7/2007	0.0028	
5/7/2008	<0.025	
12/5/2008	<0.025	
4/14/2009	<0.025	
9/30/2009	<0.025	
4/13/2010	<0.025	
10/12/2010	<0.025	
10/12/2011	<0.025	
4/9/2012	<0.025	
9/25/2012	<0.025	
3/13/2013	<0.025	
9/11/2013	<0.025	
3/10/2014	<0.025	
9/9/2014	<0.025	
4/23/2015	<0.025	
9/30/2015	<0.025	
3/23/2016	<0.025	
9/8/2016	<0.025	
3/27/2017	<0.025	
10/5/2017	<0.025	
3/16/2018	<0.025	
10/5/2018	<0.025	
4/9/2019		<0.025

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.025	
5/9/2007	<0.025	
7/17/2007	<0.025	
8/29/2007	<0.025	
11/7/2007	0.0029	
5/7/2008	0.0026	
12/5/2008	<0.025	
4/27/2009	<0.025	
9/30/2009	<0.025	
4/13/2010	<0.025	
10/12/2010	<0.025	
10/5/2011	<0.025	
4/10/2012	<0.025	
9/26/2012	<0.025	
3/13/2013	<0.025	
9/11/2013	<0.025	
3/11/2014	<0.025	
9/9/2014	0.0013 (J)	
9/30/2015	0.0008 (J)	
3/24/2016	<0.025	
9/8/2016	0.0006 (J)	
3/27/2017	0.0005 (J)	
10/5/2017	<0.025	
3/15/2018	<0.025	
10/4/2018	<0.025	
4/9/2019		<0.025

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.025	
5/9/2007	<0.025	
7/17/2007	<0.025	
8/29/2007	<0.025	
11/7/2007	0.0033	
5/7/2008	<0.025	
12/5/2008	<0.025	
4/14/2009	<0.025	
9/30/2009	<0.025	
4/13/2010	<0.025	
10/12/2010	<0.025	
4/6/2011	<0.025	
10/5/2011	<0.025	
4/9/2012	<0.025	
9/25/2012	<0.025	
3/13/2013	<0.025	
9/11/2013	<0.025	
3/11/2014	<0.025	
9/9/2014	<0.025	
4/23/2015	<0.025	
9/30/2015	<0.025	
3/23/2016	<0.025	
9/8/2016	<0.025	
3/27/2017	<0.025	
10/5/2017	<0.025	
3/15/2018	<0.025	
10/4/2018	<0.025	
4/9/2019		<0.025

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.025	
5/9/2007	<0.025	
7/17/2007	<0.025	
8/29/2007	<0.025	
11/7/2007	0.0084	
5/7/2008	<0.025	
12/5/2008	<0.025	
4/14/2009	<0.025	
10/1/2009	<0.025	
4/14/2010	<0.025	
10/13/2010	<0.025	
4/6/2011	<0.025	
10/12/2011	<0.025	
4/9/2012	<0.025	
9/19/2012	<0.025	
3/13/2013	<0.025	
9/10/2013	<0.025	
3/11/2014	<0.025	
9/3/2014	<0.025	
4/23/2015	<0.025	
9/30/2015	0.0012 (J)	
3/23/2016	<0.025	
9/8/2016	<0.025	
3/27/2017	<0.025	
10/5/2017	0.0003 (J)	
3/15/2018	0.0016 (J)	
10/5/2018	<0.025	
4/8/2019		0.0005 (J)

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	0.0027	
5/8/2007	0.0026	
7/6/2007	<0.025	
8/28/2007	0.0036	
11/6/2007	<0.025	
5/8/2008	<0.025	
12/3/2008	<0.025	
4/7/2009	<0.025	
10/1/2009	<0.025	
4/14/2010	<0.025	
10/14/2010	<0.025	
4/5/2011	<0.025	
10/12/2011	<0.025	
4/4/2012	<0.025	
9/24/2012	<0.025	
3/12/2013	<0.025	
9/10/2013	<0.025	
3/5/2014	<0.025	
9/9/2014	<0.025	
4/21/2015	<0.025	
9/29/2015	<0.025	
3/23/2016	<0.025	
9/7/2016	<0.025	
3/23/2017	<0.025	
10/4/2017	<0.025	
3/16/2018	<0.025	
10/4/2018	<0.025	
4/9/2019		<0.025



# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.025	
5/9/2007	<0.025	
7/17/2007	<0.025	
8/28/2007	<0.025	
11/6/2007	<0.025	
5/8/2008	<0.025	
12/3/2008	<0.025	
4/7/2009	<0.025	
10/1/2009	<0.025	
4/13/2010	<0.025	
10/6/2010	<0.025	
4/5/2011	<0.025	
10/4/2011	<0.025	
4/3/2012	<0.025	
9/18/2012	<0.025	
3/12/2013	<0.025	
9/9/2013	<0.025	
3/5/2014	<0.025	
9/8/2014	<0.025	
4/22/2015	<0.025	
9/29/2015	<0.025	
3/23/2016	<0.025	
9/7/2016	<0.025	
3/23/2017	<0.025	
10/4/2017	<0.025	
3/16/2018	<0.025	
10/4/2018	<0.025	
4/8/2019		<0.025

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	0.44 (o)	
7/6/2007	0.016	
8/28/2007	0.0091	
11/6/2007	<0.025	
5/8/2008	<0.025	
12/2/2008	0.003	
4/8/2009	<0.025	
10/1/2009	<0.025	
4/13/2010	<0.025	
10/7/2010	<0.025	
4/5/2011	<0.025	
10/4/2011	<0.025	
4/3/2012	<0.025	
9/18/2012	<0.025	
3/12/2013	<0.025	
9/10/2013	<0.025	
3/5/2014	<0.025	
9/8/2014	<0.025	
4/21/2015	0.00082 (J)	
9/29/2015	<0.025	
3/23/2016	<0.025	
9/7/2016	<0.025	
3/24/2017	0.0007 (J)	
10/4/2017	<0.025	
3/15/2018	<0.025	
10/4/2018	<0.025	
4/8/2019		0.00025 (J)

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.025	
7/6/2007	<0.025	
8/28/2007	<0.025	
11/6/2007	<0.025	
5/8/2008	<0.025	
12/2/2008	<0.025	
4/8/2009	<0.025	
9/30/2009	<0.025	
4/13/2010	<0.025	
10/13/2010	<0.025	
4/5/2011	<0.025	
10/4/2011	<0.025	
4/3/2012	<0.025	
9/19/2012	<0.025	
3/12/2013	<0.025	
9/10/2013	<0.025	
3/5/2014	<0.025	
9/9/2014	<0.025	
4/22/2015	<0.025	
9/29/2015	<0.025	
3/23/2016	<0.025	
9/8/2016	<0.025	
3/24/2017	<0.025	
10/5/2017	<0.025	
3/14/2018	<0.025	
10/4/2018	<0.025	
4/8/2019		<0.025

# Prediction Limit

Constituent: Copper (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	0.0043	
5/8/2007	<0.025	
7/6/2007	<0.025	
8/28/2007	<0.025	
11/6/2007	<0.025	
5/8/2008	<0.025	
12/2/2008	<0.025	
4/8/2009	<0.025	
9/30/2009	<0.025	
4/13/2010	<0.025	
10/13/2010	<0.025	
4/5/2011	<0.025	
10/4/2011	<0.025	
4/4/2012	<0.025	
9/19/2012	<0.025	
3/12/2013	<0.025	
9/10/2013	<0.025	
3/5/2014	<0.025	
9/3/2014	<0.025	
4/21/2015	<0.025	
9/29/2015	<0.025	
3/23/2016	<0.025	
9/8/2016	<0.025	
3/27/2017	<0.025	
10/5/2017	<0.025	
3/15/2018	<0.025	
10/5/2018	<0.025	
4/8/2019		<0.025

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.005	
5/8/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/9/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/13/2010	<0.005	
4/6/2011	<0.005	
10/4/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/4/2014	<0.005	
9/3/2014	<0.005	
4/21/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/6/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/3/2008	<0.005	
4/14/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/5/2012	<0.005	
9/19/2012	<0.005	
3/13/2013	<0.005	
9/10/2013	<0.005	
3/10/2014	<0.005	
9/3/2014	<0.005	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/8/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/16/2018	<0.005	
10/5/2018	<0.005	
4/9/2019		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/4/2008	<0.005	
4/14/2009	<0.005	
10/2/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/5/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/10/2014	<0.005	
9/9/2014	<0.005	
4/22/2015	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	<0.005	
9/8/2016	<0.005	
10/18/2016	<0.005	
12/7/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	0.0002 (J)	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
10/12/2011	<0.005	
4/9/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/10/2014	<0.005	
9/9/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/3/2017	<0.005	
3/27/2017	7E-05 (J)	
10/5/2017	<0.005	
3/16/2018	<0.005	
10/5/2018	<0.005	
4/9/2019		<0.005



# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/27/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
10/5/2011	<0.005	
4/10/2012	<0.005	
9/26/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/11/2014	<0.005	
9/9/2014	<0.005	
9/30/2015	<0.005	
3/24/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	0.0001 (J)	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/12/2010	<0.005	
4/6/2011	<0.005	
10/5/2011	<0.005	
4/9/2012	<0.005	
9/25/2012	<0.005	
3/13/2013	<0.005	
9/11/2013	<0.005	
3/11/2014	<0.005	
9/9/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	<0.005	
11/7/2007	<0.005	
5/7/2008	<0.005	
12/5/2008	<0.005	
4/14/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/13/2010	<0.005	
4/6/2011	<0.005	
10/12/2011	<0.005	
4/9/2012	<0.005	
9/19/2012	<0.005	
3/13/2013	<0.005	
9/10/2013	<0.005	
3/11/2014	<0.005	
9/3/2014	<0.005	
4/23/2015	<0.005	
9/30/2015	<0.005	
3/23/2016	<0.005	
5/19/2016	<0.005	
7/7/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/7/2016	<0.005	
2/3/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/5/2018	0.00042 (J)	
4/8/2019		0.00018 (J)

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.005	
5/8/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/14/2010	<0.005	
10/14/2010	<0.005	
4/5/2011	<0.005	
10/12/2011	<0.005	
4/4/2012	<0.005	
9/24/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/9/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/1/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/9/2019		0.00039 (J)

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/3/2008	<0.005	
4/7/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/6/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/9/2013	<0.005	
3/5/2014	<0.005	
9/8/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/17/2016	<0.005	
7/6/2016	<0.005	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	0.0001 (J)	
2/1/2017	<0.005	
3/23/2017	<0.005	
10/4/2017	<0.005	
3/16/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
10/1/2009	<0.005	
4/13/2010	<0.005	
10/7/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/18/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	0.0016 (J)	
9/8/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	0.0001 (J)	
9/7/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	<0.005	
2/2/2017	0.0003 (J)	
3/24/2017	0.0002 (J)	
10/4/2017	7E-05 (J)	
3/15/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/13/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/3/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/9/2014	<0.005	
4/22/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	<0.005	
9/8/2016	<0.005	
10/18/2016	<0.005	
12/8/2016	0.0002 (J)	
2/2/2017	<0.005	
3/24/2017	<0.005	
10/5/2017	<0.005	
3/14/2018	<0.005	
10/4/2018	<0.005	
4/8/2019		<0.005

# Prediction Limit

Constituent: Lead (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.005	
5/8/2007	<0.005	
7/6/2007	<0.005	
8/28/2007	<0.005	
11/6/2007	<0.005	
5/8/2008	<0.005	
12/2/2008	<0.005	
4/8/2009	<0.005	
9/30/2009	<0.005	
4/13/2010	<0.005	
10/13/2010	<0.005	
4/5/2011	<0.005	
10/4/2011	<0.005	
4/4/2012	<0.005	
9/19/2012	<0.005	
3/12/2013	<0.005	
9/10/2013	<0.005	
3/5/2014	<0.005	
9/3/2014	<0.005	
4/21/2015	<0.005	
9/29/2015	<0.005	
3/23/2016	<0.005	
5/18/2016	<0.005	
7/6/2016	<0.005	
9/8/2016	<0.005	
10/19/2016	<0.005	
12/8/2016	<0.005	
2/2/2017	<0.005	
3/27/2017	<0.005	
10/5/2017	<0.005	
3/15/2018	<0.005	
10/5/2018	<0.005	
4/8/2019		<0.005



# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/3/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/10/2014	0.0013 (J)	
9/3/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
9/8/2016	0.0009 (J)	
3/27/2017	0.0006 (J)	
10/5/2017	0.0008 (J)	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/4/2008	<0.01	
4/14/2009	<0.01	
10/2/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	0.00072 (J)	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	0.0062 (J)	
10/5/2017	0.0005 (J)	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	0.00074 (J)	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	0.0006 (J)	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.005	
5/9/2007	<0.005	
7/17/2007	<0.005	
8/29/2007	0.0055	
11/7/2007	0.0044	
5/7/2008	0.0047	
12/5/2008	<0.005	
4/27/2009	0.0027	
9/30/2009	0.0051	
4/13/2010	0.0031	
10/12/2010	<0.005	
10/5/2011	0.0032	
4/10/2012	<0.005	
9/26/2012	0.0063	
3/13/2013	0.0029	
9/11/2013	0.0046	
3/11/2014	0.002 (J)	
9/9/2014	0.0029	
9/30/2015	0.0025 (J)	
3/24/2016	0.00317 (J)	
9/8/2016	0.0038 (J)	
3/27/2017	0.0024 (J)	
10/5/2017	0.0104	
3/15/2018	0.0026 (J)	
10/4/2018	0.012	
4/9/2019		0.0048 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/5/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	0.00059 (J)	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	0.0016 (J)	
9/3/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	0.0011 (J)	
3/27/2017	0.0007 (J)	
10/5/2017	<0.01	
3/15/2018	0.001 (J)	
10/5/2018	0.0014 (J)	
4/8/2019		0.0011 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	0.001 (J)	
9/9/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/23/2017	0.0008 (J)	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		0.00098 (J)



# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/6/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/9/2013	<0.01	
3/5/2014	0.00092 (J)	
9/8/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		0.00032 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	18 (o)	
7/6/2007	5.9 (o)	
8/28/2007	3.9	
11/6/2007	3.1	
5/8/2008	2.1	
12/2/2008	1.2	
4/8/2009	1.1	
10/1/2009	0.88	
4/13/2010	0.82	
10/7/2010	0.72	
4/5/2011	0.52	
10/4/2011	0.56	
4/3/2012	0.365	
9/18/2012	0.45	
3/12/2013	0.13	
9/10/2013	0.2	
3/5/2014	0.17	
9/8/2014	0.25	
4/21/2015	0.15	
9/29/2015	0.203	
3/23/2016	0.0607	
9/7/2016	0.141	
3/24/2017	0.0313	
10/4/2017	0.093	
3/15/2018	0.057	
10/4/2018	0.11	
4/8/2019		0.03

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	0.00079 (J)	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/24/2017	<0.01	
10/5/2017	<0.01	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		0.00064 (J)

# Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	0.003	
3/5/2014	0.0022 (J)	
9/3/2014	<0.01	
4/21/2015	0.0019 (J)	
9/29/2015	0.0019 (J)	
3/23/2016	<0.01	
9/8/2016	0.0023 (J)	
3/27/2017	0.0023 (J)	
10/5/2017	0.0024 (J)	
3/15/2018	0.0023 (J)	
10/5/2018	0.0025 (J)	
4/8/2019		0.0021 (J)

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	0.0016 (J)	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/6/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/3/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/10/2014	<0.01	
9/3/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/4/2008	<0.01	
4/14/2009	<0.01	
10/2/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/18/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/3/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01



# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/27/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/5/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	0.0024 (J)	
9/9/2014	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	0.0017 (J)	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/5/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	0.0017 (J)	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/3/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
5/19/2016	<0.01	
7/7/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/7/2016	<0.01	
2/3/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/1/2017	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/6/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/9/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/17/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/1/2017	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/7/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/7/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/24/2017	<0.01	
10/4/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/18/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/24/2017	<0.01	
10/5/2017	<0.01	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	0.0018 (J)	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
5/18/2016	<0.01	
7/6/2016	<0.01	
9/8/2016	<0.01	
10/19/2016	<0.01	
12/8/2016	<0.01	
2/2/2017	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01



# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/3/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/10/2014	<0.01	
9/3/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/4/2008	<0.01	
4/14/2009	<0.01	
10/2/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/27/2009	0.0036	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/5/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	<0.01	
9/9/2014	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/5/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/3/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01



# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/6/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/9/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/7/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/24/2017	<0.01	
10/4/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/24/2017	<0.01	
10/5/2017	<0.01	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Silver (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.001	
5/8/2007	<0.001	
7/17/2007	<0.001	
8/28/2007	<0.001	
11/7/2007	<0.001	
5/9/2008	<0.001	
12/2/2008	<0.001	
4/8/2009	<0.001	
10/1/2009	<0.001	
4/14/2010	<0.001	
10/13/2010	<0.001	
4/6/2011	<0.001	
10/4/2011	<0.001	
4/10/2012	<0.001	
9/26/2012	<0.001	
3/12/2013	<0.001	
3/4/2014	<0.001	
9/3/2014	<0.001	
4/21/2015	<0.001	
9/30/2015	<0.001	
3/23/2016	<0.001	
5/17/2016	<0.001	
7/6/2016	<0.001	
9/7/2016	<0.001	
10/18/2016	<0.001	
12/6/2016	<0.001	
2/2/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/28/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/3/2008	<0.001	
4/14/2009	<0.001	
10/1/2009	<0.001	
4/13/2010	<0.001	
10/12/2010	<0.001	
4/6/2011	<0.001	
10/12/2011	<0.001	
4/5/2012	<0.001	
9/19/2012	<0.001	
3/13/2013	<0.001	
3/10/2014	<0.001	
9/3/2014	<0.001	
4/21/2015	<0.001	
9/30/2015	<0.001	
3/24/2016	<0.001	
5/18/2016	<0.001	
7/7/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/8/2016	<0.001	
2/2/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/16/2018	<0.001	
10/5/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/28/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/4/2008	<0.001	
4/14/2009	<0.001	
10/2/2009	<0.001	
4/13/2010	<0.001	
10/12/2010	<0.001	
4/6/2011	<0.001	
10/12/2011	<0.001	
4/5/2012	<0.001	
9/25/2012	<0.001	
3/13/2013	<0.001	
3/10/2014	<0.001	
9/9/2014	<0.001	
4/21/2015	<0.001	
9/30/2015	<0.001	
3/24/2016	<0.001	
5/18/2016	<0.001	
7/6/2016	<0.001	
9/8/2016	<0.001	
10/18/2016	<0.001	
12/7/2016	<0.001	
2/2/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/29/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/5/2008	<0.001	
4/14/2009	<0.001	
9/30/2009	<0.001	
4/13/2010	<0.001	
10/12/2010	<0.001	
10/12/2011	<0.001	
4/9/2012	<0.001	
9/25/2012	<0.001	
3/13/2013	<0.001	
3/10/2014	<0.001	
9/9/2014	<0.001	
4/21/2015	<0.001	
9/30/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/7/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/7/2016	<0.001	
2/3/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/16/2018	<0.001	
10/5/2018	<0.001	
4/9/2019		<0.001



# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/29/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/5/2008	<0.001	
4/27/2009	<0.001	
9/30/2009	<0.001	
4/13/2010	<0.001	
10/12/2010	<0.001	
10/5/2011	<0.001	
4/10/2012	<0.001	
9/26/2012	<0.001	
3/13/2013	<0.001	
3/11/2014	<0.001	
9/9/2014	<0.001	
9/30/2015	<0.001	
3/24/2016	<0.001	
5/18/2016	<0.001	
7/7/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/7/2016	<0.001	
2/2/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/29/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/5/2008	<0.001	
4/14/2009	<0.001	
9/30/2009	<0.001	
4/13/2010	<0.001	
10/12/2010	<0.001	
4/6/2011	<0.001	
10/5/2011	<0.001	
4/9/2012	<0.001	
9/25/2012	<0.001	
3/13/2013	<0.001	
3/11/2014	<0.001	
9/9/2014	<0.001	
4/21/2015	<0.001	
9/30/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/7/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/7/2016	<0.001	
2/2/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/29/2007	<0.001	
11/7/2007	<0.001	
5/7/2008	<0.001	
12/5/2008	<0.001	
4/14/2009	<0.001	
10/1/2009	<0.001	
4/14/2010	<0.001	
10/13/2010	<0.001	
4/6/2011	<0.001	
10/12/2011	<0.001	
4/9/2012	<0.001	
9/19/2012	<0.001	
3/13/2013	<0.001	
3/11/2014	<0.001	
9/3/2014	<0.001	
4/21/2015	<0.001	
9/30/2015	<0.001	
3/23/2016	<0.001	
5/19/2016	<0.001	
7/7/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/7/2016	<0.001	
2/3/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/5/2018	<0.001	
4/8/2019		<0.001

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.001	
5/8/2007	<0.001	
7/6/2007	<0.001	
8/28/2007	<0.001	
11/6/2007	<0.001	
5/8/2008	<0.001	
12/3/2008	<0.001	
4/7/2009	<0.001	
10/1/2009	<0.001	
4/14/2010	<0.001	
10/14/2010	<0.001	
4/5/2011	<0.001	
10/12/2011	<0.001	
4/4/2012	<0.001	
9/24/2012	<0.001	
3/12/2013	<0.001	
3/5/2014	<0.001	
9/9/2014	<0.001	
4/21/2015	<0.001	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/17/2016	<0.001	
7/6/2016	<0.001	
9/7/2016	<0.001	
10/18/2016	<0.001	
12/8/2016	<0.001	
2/1/2017	<0.001	
3/23/2017	<0.001	
10/4/2017	<0.001	
3/16/2018	<0.001	
10/4/2018	<0.001	
4/9/2019		<0.001

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.001	
5/9/2007	<0.001	
7/17/2007	<0.001	
8/28/2007	<0.001	
11/6/2007	<0.001	
5/8/2008	<0.001	
12/3/2008	<0.001	
4/7/2009	<0.001	
10/1/2009	<0.001	
4/13/2010	<0.001	
10/6/2010	<0.001	
4/5/2011	<0.001	
10/4/2011	<0.001	
4/3/2012	<0.001	
9/18/2012	<0.001	
9/24/2012	<0.001	
3/12/2013	<0.001	
3/5/2014	<0.001	
9/8/2014	<0.001	
4/21/2015	<0.001	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/17/2016	<0.001	
7/6/2016	<0.001	
9/7/2016	<0.001	
10/18/2016	<0.001	
12/8/2016	<0.001	
2/1/2017	<0.001	
3/23/2017	<0.001	
10/4/2017	<0.001	
3/16/2018	<0.001	
10/4/2018	<0.001	
4/8/2019		<0.001

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	<0.001	
7/6/2007	<0.001	
8/28/2007	<0.001	
11/6/2007	<0.001	
5/8/2008	<0.001	
12/2/2008	<0.001	
4/8/2009	<0.001	
10/1/2009	<0.001	
4/13/2010	<0.001	
10/7/2010	<0.001	
4/5/2011	<0.001	
10/4/2011	<0.001	
4/3/2012	<0.001	
9/18/2012	<0.001	
3/12/2013	<0.001	
3/5/2014	<0.001	
9/8/2014	<0.001	
4/21/2015	<0.001	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/6/2016	0.0001 (J)	
9/7/2016	<0.001	
10/18/2016	<0.001	
12/8/2016	<0.001	
2/2/2017	<0.001	
3/24/2017	<0.001	
10/4/2017	<0.001	
3/15/2018	<0.001	
10/4/2018	<0.001	
4/8/2019		<0.001

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.001	
7/6/2007	<0.001	
8/28/2007	<0.001	
11/6/2007	<0.001	
5/8/2008	<0.001	
12/2/2008	<0.001	
4/8/2009	<0.001	
9/30/2009	<0.001	
4/13/2010	<0.001	
10/13/2010	<0.001	
4/5/2011	<0.001	
10/4/2011	<0.001	
4/3/2012	<0.001	
9/19/2012	<0.001	
9/24/2012	<0.001	
3/12/2013	<0.001	
3/5/2014	<0.001	
9/9/2014	<0.001	
4/21/2015	<0.001	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/6/2016	<0.001	
9/8/2016	<0.001	
10/18/2016	<0.001	
12/8/2016	<0.001	
2/2/2017	<0.001	
3/24/2017	<0.001	
10/5/2017	<0.001	
3/14/2018	<0.001	
10/4/2018	<0.001	
4/8/2019		<0.001

# Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.001	
5/8/2007	<0.001	
7/6/2007	<0.001	
8/28/2007	<0.001	
11/6/2007	<0.001	
5/8/2008	<0.001	
12/2/2008	<0.001	
4/8/2009	<0.001	
9/30/2009	<0.001	
4/13/2010	<0.001	
10/13/2010	<0.001	
4/5/2011	<0.001	
10/4/2011	<0.001	
4/4/2012	<0.001	
9/19/2012	<0.001	
3/12/2013	<0.001	
3/5/2014	<0.001	
9/3/2014	<0.001	
4/21/2015	<0.001	
9/29/2015	<0.001	
3/23/2016	<0.001	
5/18/2016	<0.001	
7/6/2016	<0.001	
9/8/2016	<0.001	
10/19/2016	<0.001	
12/8/2016	<0.001	
2/2/2017	<0.001	
3/27/2017	<0.001	
10/5/2017	<0.001	
3/15/2018	<0.001	
10/5/2018	<0.001	
4/8/2019		<0.001



# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/3/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/10/2014	<0.01	
9/3/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/4/2008	<0.01	
4/14/2009	<0.01	
10/2/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/30/2015	<0.01	
3/24/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/27/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/5/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	<0.01	
9/9/2014	0.0029 (J)	
9/30/2015	0.001 (J)	
3/24/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/5/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	<0.01	
9/9/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	<0.01	
9/3/2014	<0.01	
4/23/2015	<0.01	
9/30/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		0.00017 (J)

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	<0.01	
10/12/2011	<0.01	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	0.00093 (J)	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/9/2019		<0.01



# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/6/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/9/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/23/2017	<0.01	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	0.0039	
4/13/2010	<0.01	
10/7/2010	<0.01	
4/5/2011	0.0025	
10/4/2011	0.0027	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/8/2014	0.0012 (J)	
4/21/2015	0.0015 (J)	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/24/2017	<0.01	
10/4/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/9/2014	<0.01	
4/22/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/24/2017	<0.01	
10/5/2017	<0.01	
3/14/2018	<0.01	
10/4/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 8/16/2019 8:44 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	0.0029	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	<0.01	
9/3/2014	<0.01	
4/21/2015	<0.01	
9/29/2015	<0.01	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/5/2018	<0.01	
4/8/2019		<0.01

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-10	GWC-10
3/7/2007	<0.01	
5/8/2007	<0.01	
7/17/2007	0.0069	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/9/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/4/2011	<0.01	
4/10/2012	<0.01	
9/26/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/4/2014	0.0026	
9/3/2014	0.00079 (J)	
4/21/2015	<0.01	
9/30/2015	0.0018 (J)	
3/23/2016	<0.01	
9/7/2016	<0.01	
3/27/2017	0.0014 (J)	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	0.0033 (J)	
4/9/2019		<0.01

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-18	GWC-18
3/7/2007	<0.01	
5/9/2007	0.0026	
7/17/2007	0.0043	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/3/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/10/2014	0.0022 (J)	
9/3/2014	0.0013 (J)	
4/22/2015	0.0019 (J)	
9/30/2015	0.0037 (J)	
3/24/2016	<0.01	
9/8/2016	0.0024 (J)	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/16/2018	<0.01	
10/5/2018	0.0029 (J)	
4/9/2019		0.0037 (J)

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-19	GWC-19
3/6/2007	<0.01	
5/9/2007	0.0025	
7/17/2007	0.0035	
8/28/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/4/2008	<0.01	
4/14/2009	<0.01	
10/2/2009	<0.01	
4/13/2010	0.0043	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/5/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	0.0031	
9/9/2014	0.00098 (J)	
4/22/2015	0.0015 (J)	
9/30/2015	0.002 (J)	
3/24/2016	<0.01	
9/8/2016	0.0029 (J)	
3/27/2017	0.0019 (J)	
10/5/2017	0.0024 (J)	
3/15/2018	<0.01	
10/4/2018	0.013	
4/9/2019		<0.01

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-20	GWC-20
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/10/2014	0.0024 (J)	
9/9/2014	0.00078 (J)	
4/23/2015	<0.01	
9/30/2015	0.0016 (J)	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	0.0017 (J)	
10/5/2017	0.0016 (J)	
3/16/2018	<0.01	
10/5/2018	<0.01	
4/9/2019		<0.01



# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-21	GWC-21
3/6/2007	<0.0025	
5/9/2007	<0.0025	
7/17/2007	0.0031	
8/29/2007	0.0056	
11/7/2007	0.0059	
5/7/2008	0.0059	
12/5/2008	<0.0025	
4/27/2009	0.0051	
9/30/2009	0.0066	
4/13/2010	0.0041	
10/12/2010	0.004	
10/5/2011	0.0043	
4/10/2012	0.0108	
9/26/2012	0.0066	
3/13/2013	0.0035	
9/11/2013	0.005	
3/11/2014	0.005	
9/9/2014	0.0041	
9/30/2015	0.0031 (J)	
3/24/2016	0.00393 (J)	
9/8/2016	0.0047 (J)	
3/27/2017	0.0036 (J)	
10/5/2017	0.0065 (J)	
3/15/2018	0.0053 (J)	
10/4/2018	0.0077 (J)	
4/9/2019		0.0041 (J)

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-22	GWC-22
3/6/2007	<0.01	
5/9/2007	0.0035	
7/17/2007	<0.01	
8/29/2007	<0.01	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/12/2010	<0.01	
4/6/2011	<0.01	
10/5/2011	<0.01	
4/9/2012	<0.01	
9/25/2012	<0.01	
3/13/2013	<0.01	
9/11/2013	<0.01	
3/11/2014	0.0037	
9/9/2014	0.0006 (J)	
4/23/2015	<0.01	
9/30/2015	0.0021 (J)	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	<0.01	
10/5/2017	<0.01	
3/15/2018	<0.01	
10/4/2018	0.003 (J)	
4/9/2019		<0.01

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-23	GWC-23
3/6/2007	0.0054	
5/9/2007	0.0041	
7/17/2007	0.005	
8/29/2007	0.0044	
11/7/2007	<0.01	
5/7/2008	<0.01	
12/5/2008	<0.01	
4/14/2009	<0.01	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/13/2010	<0.01	
4/6/2011	<0.01	
10/12/2011	<0.01	
4/9/2012	<0.01	
9/19/2012	<0.01	
3/13/2013	<0.01	
9/10/2013	<0.01	
3/11/2014	0.0033	
9/3/2014	0.0014 (J)	
4/23/2015	0.0024 (J)	
9/30/2015	0.0041 (J)	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	0.0014 (J)	
10/5/2017	0.0014 (J)	
3/15/2018	0.0039 (J)	
10/5/2018	0.0048 (J)	
4/8/2019		0.0016 (J)

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-5	GWC-5
3/7/2007	0.0064	
5/8/2007	<0.01	
7/6/2007	<0.01	
8/28/2007	0.0025	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	0.0025	
10/1/2009	<0.01	
4/14/2010	<0.01	
10/14/2010	<0.01	
4/5/2011	0.0025	
10/12/2011	0.0037	
4/4/2012	<0.01	
9/24/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	0.0028	
9/9/2014	0.00058 (J)	
4/21/2015	0.0043	
9/29/2015	0.0031 (J)	
3/23/2016	0.00272 (J)	
9/7/2016	<0.01	
3/23/2017	0.0026 (J)	
10/4/2017	<0.01	
3/16/2018	<0.01	
10/4/2018	0.0028 (J)	
4/9/2019		<0.01

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-6	GWC-6
3/7/2007	<0.01	
5/9/2007	<0.01	
7/17/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/3/2008	<0.01	
4/7/2009	<0.01	
10/1/2009	<0.01	
4/13/2010	<0.01	
10/6/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/18/2012	<0.01	
3/12/2013	<0.01	
9/9/2013	<0.01	
3/5/2014	0.0026	
9/8/2014	0.00055 (J)	
4/22/2015	<0.01	
9/29/2015	0.0026 (J)	
3/23/2016	<0.01	
9/7/2016	0.0024 (J)	
3/23/2017	0.0035 (J)	
10/4/2017	<0.01	
3/16/2018	0.0029 (J)	
10/4/2018	0.0039 (J)	
4/8/2019		0.0013 (J)

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-7	GWC-7
5/9/2007	45 (o)	
7/6/2007	16 (o)	
8/28/2007	11 (o)	
11/6/2007	8.3	
5/8/2008	5	
12/2/2008	3.2	
4/8/2009	2.4	
10/1/2009	1.9	
4/13/2010	1.9	
10/7/2010	1.6	
4/5/2011	1.1	
10/4/2011	1.1	
4/3/2012	0.75	
9/18/2012	0.88	
3/12/2013	0.23	
9/10/2013	0.36	
3/5/2014	0.33	
9/8/2014	0.47	
4/21/2015	0.27	
9/29/2015	0.359	
3/23/2016	0.102	
9/7/2016	0.24	
3/24/2017	0.0512	
10/4/2017	0.159	
3/15/2018	0.12	
10/4/2018	0.22	
4/8/2019		0.051

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-8	GWC-8
5/9/2007	0.0038	
7/6/2007	<0.01	
8/28/2007	<0.01	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/3/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	0.0028	
9/9/2014	0.0014 (J)	
4/22/2015	<0.01	
9/29/2015	0.0016 (J)	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/24/2017	0.0031 (J)	
10/5/2017	<0.01	
3/14/2018	0.0053 (J)	
10/4/2018	0.0031 (J)	
4/8/2019		0.0012 (J)

# Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 8/16/2019 8:44 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

	GWC-9	GWC-9
3/7/2007	<0.01	
5/8/2007	0.0027	
7/6/2007	0.0032	
8/28/2007	0.0026	
11/6/2007	<0.01	
5/8/2008	<0.01	
12/2/2008	<0.01	
4/8/2009	<0.01	
9/30/2009	<0.01	
4/13/2010	<0.01	
10/13/2010	<0.01	
4/5/2011	<0.01	
10/4/2011	<0.01	
4/4/2012	<0.01	
9/19/2012	<0.01	
3/12/2013	<0.01	
9/10/2013	<0.01	
3/5/2014	0.0029	
9/3/2014	0.0011 (J)	
4/21/2015	<0.01	
9/29/2015	0.0034 (J)	
3/23/2016	<0.01	
9/8/2016	<0.01	
3/27/2017	0.0014 (J)	
10/5/2017	0.0013 (J)	
3/15/2018	<0.01	
10/5/2018	0.0044 (J)	
4/8/2019		0.0016 (J)



# Trend Test - Significant Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/16/2019, 8:51 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-2 (bg)	0.004745	298	167	Yes	33	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3 (bg)	-0.004787	-286	-167	Yes	33	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	-0.004904	-227	-167	Yes	33	0	n/a	n/a	0.01	NP

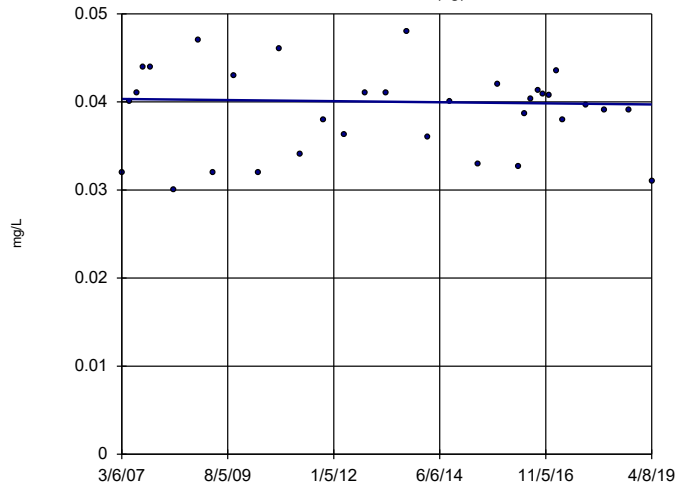
# Trend Test - All Results

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill Printed 8/16/2019, 8:52 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1 (bg)	-0.00005029	-22	-167	No	33	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-11 (bg)	-0.00009779	-47	-167	No	33	0	n/a	n/a	0.01	NP
<b>Barium (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>0.004745</b>	<b>298</b>	<b>167</b>	<b>Yes</b>	<b>33</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Barium (mg/L)</b>	<b>GWA-3 (bg)</b>	<b>-0.004787</b>	<b>-286</b>	<b>-167</b>	<b>Yes</b>	<b>33</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Barium (mg/L)</b>	<b>GWA-4 (bg)</b>	<b>-0.004904</b>	<b>-227</b>	<b>-167</b>	<b>Yes</b>	<b>33</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Barium (mg/L)	GWC-8	0	-11	-167	No	33	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

GWA-1 (bg)



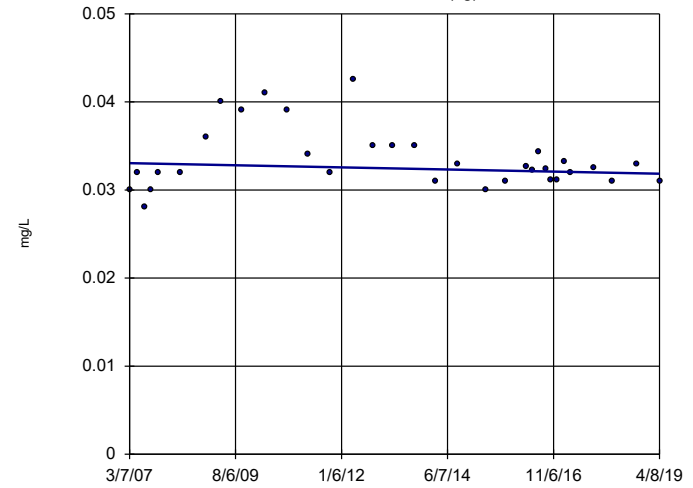
n = 33  
 Slope = -0.00005029  
 units per year.  
 Mann-Kendall  
 statistic = -22  
 critical = -167  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Barium Analysis Run 8/16/2019 8:50 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-11 (bg)



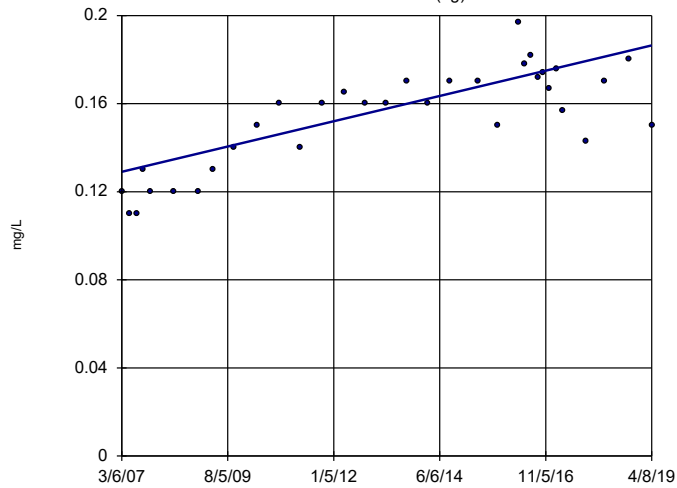
n = 33  
 Slope = -0.00009779  
 units per year.  
 Mann-Kendall  
 statistic = -47  
 critical = -167  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Barium Analysis Run 8/16/2019 8:50 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-2 (bg)



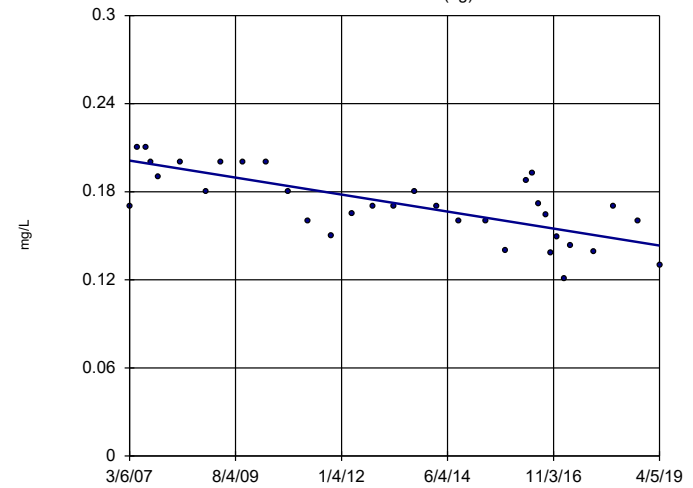
n = 33  
 Slope = 0.004745  
 units per year.  
 Mann-Kendall  
 statistic = 298  
 critical = 167  
 Increasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Barium Analysis Run 8/16/2019 8:50 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-3 (bg)



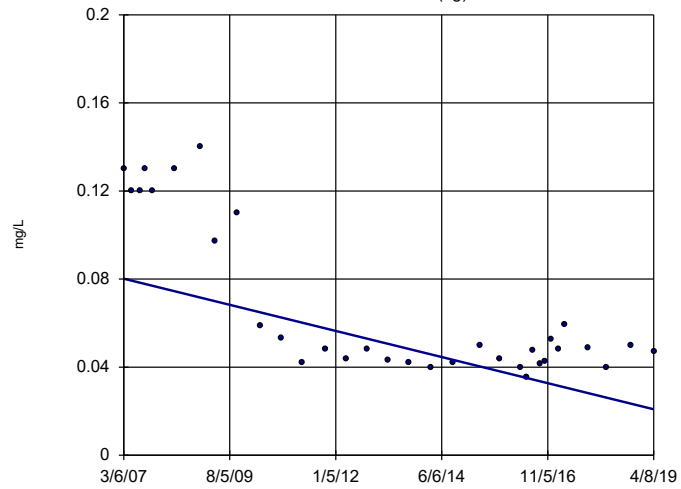
n = 33  
 Slope = -0.004787  
 units per year.  
 Mann-Kendall  
 statistic = -286  
 critical = -167  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Barium Analysis Run 8/16/2019 8:50 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

GWA-4 (bg)

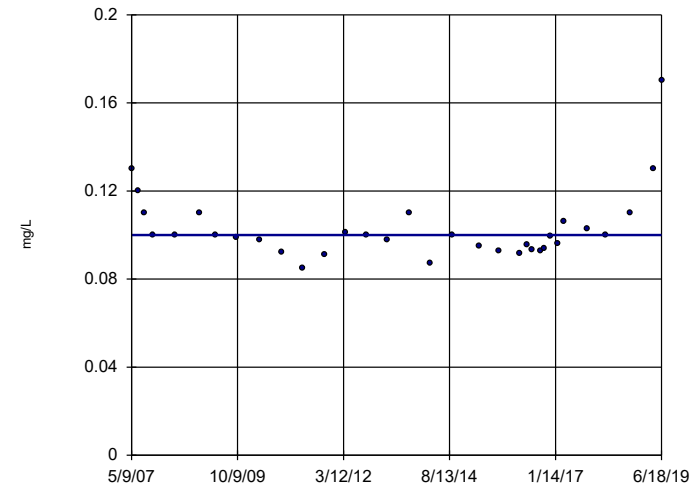


n = 33  
Slope = -0.004904  
units per year.  
Mann-Kendall  
statistic = -227  
critical = -167  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Barium Analysis Run 8/16/2019 8:51 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Sen's Slope Estimator

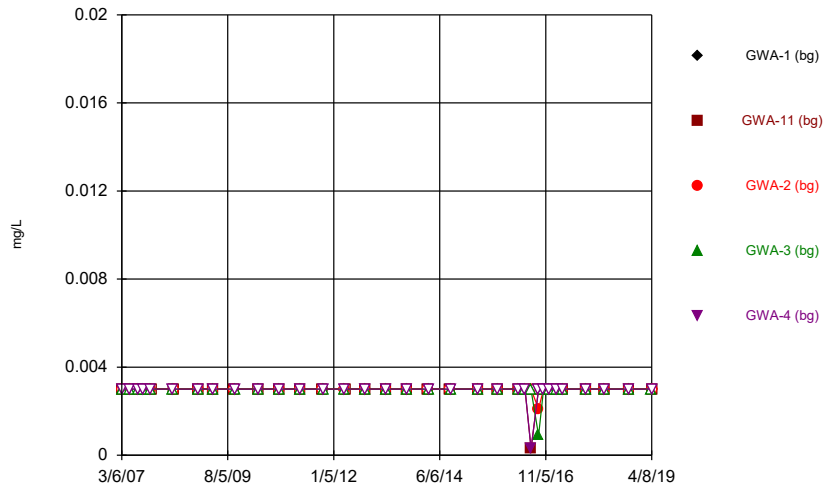
GWC-8



n = 33  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -11  
critical = -167  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

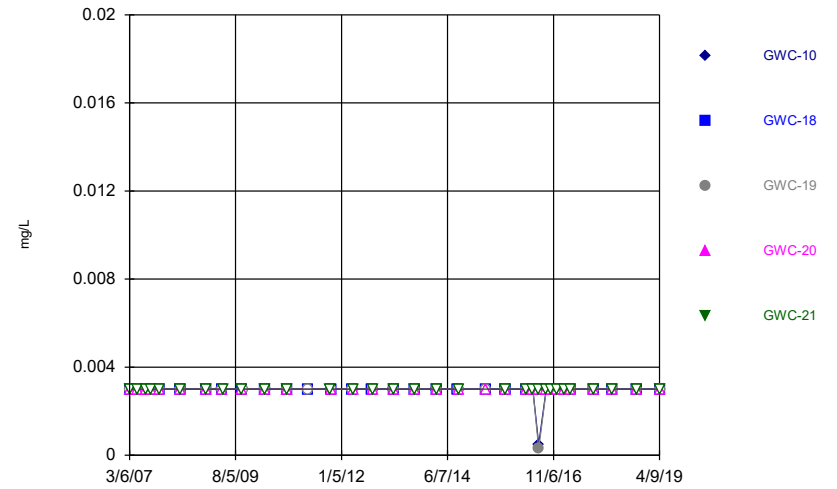
Constituent: Barium Analysis Run 8/16/2019 8:51 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



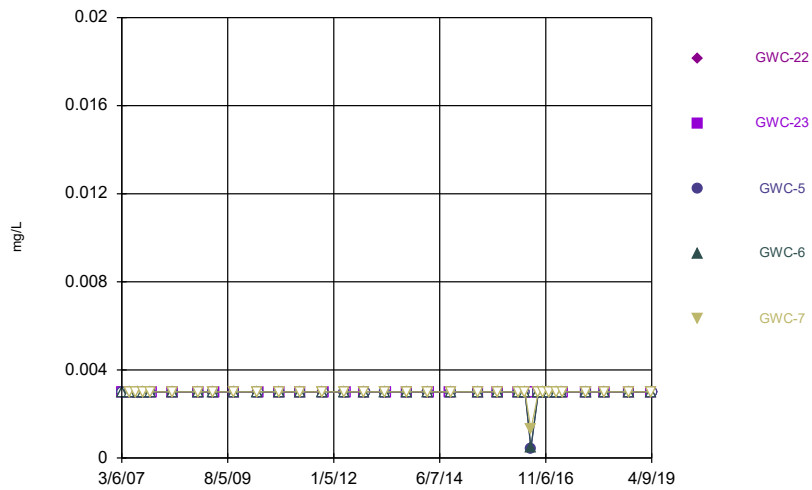
Constituent: Antimony Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



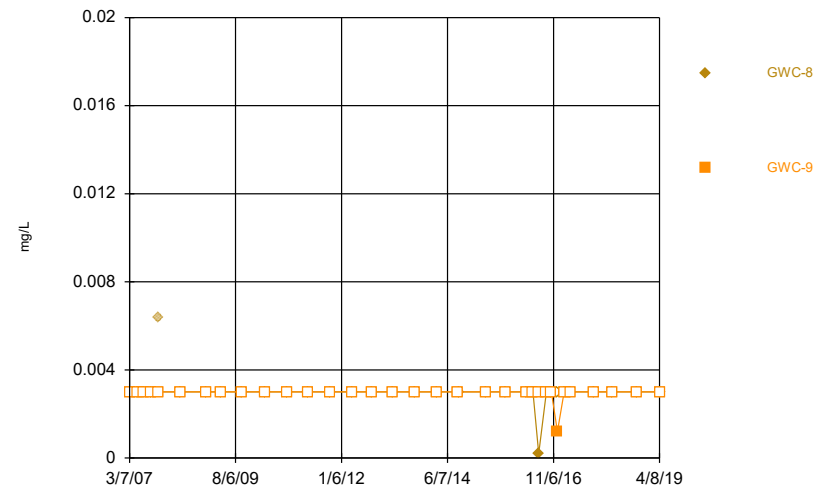
Constituent: Antimony Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



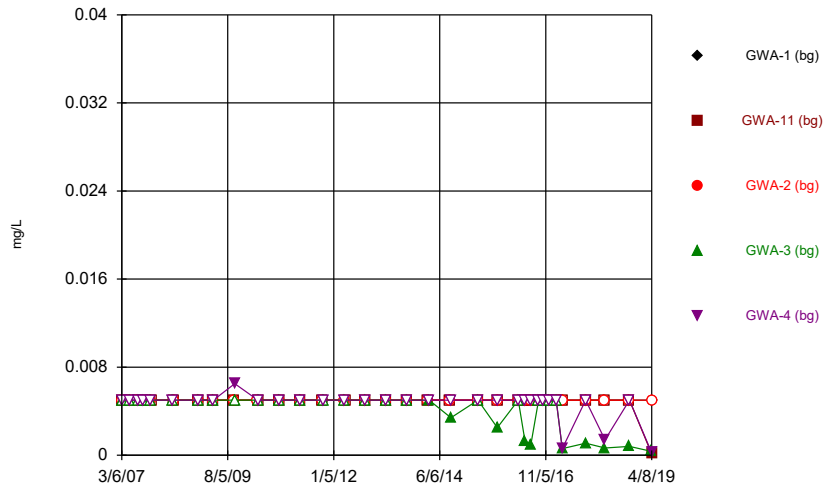
Constituent: Antimony Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



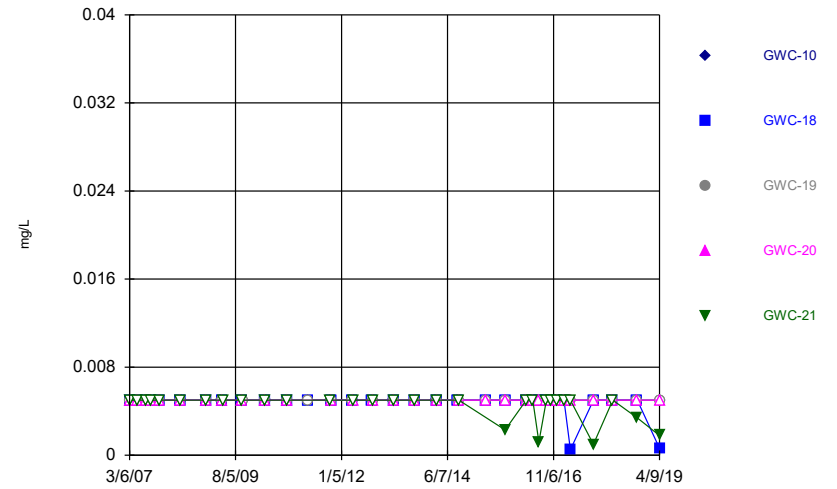
Constituent: Antimony Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



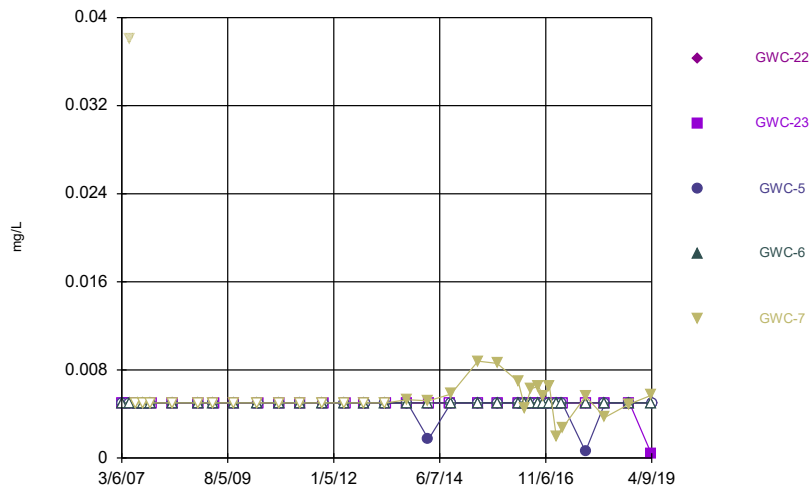
Constituent: Arsenic Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



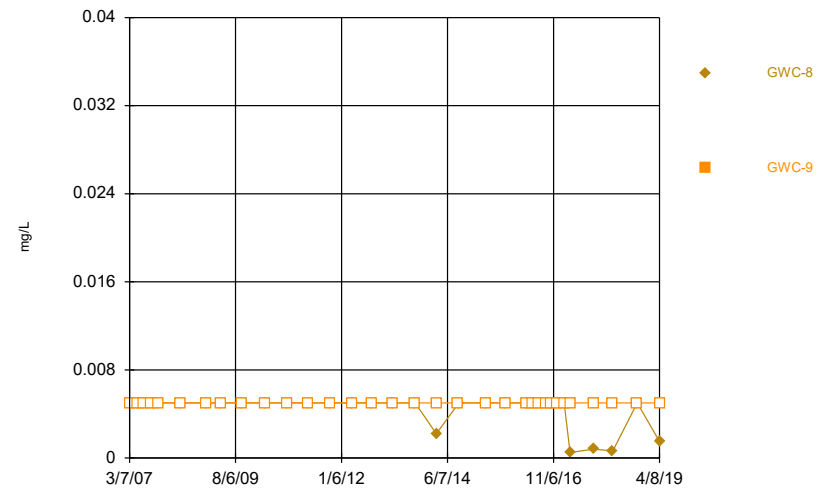
Constituent: Arsenic Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



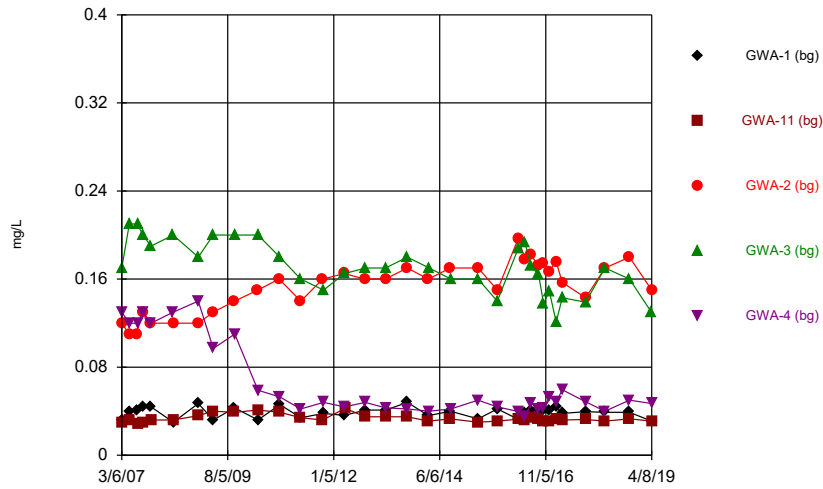
Constituent: Arsenic Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



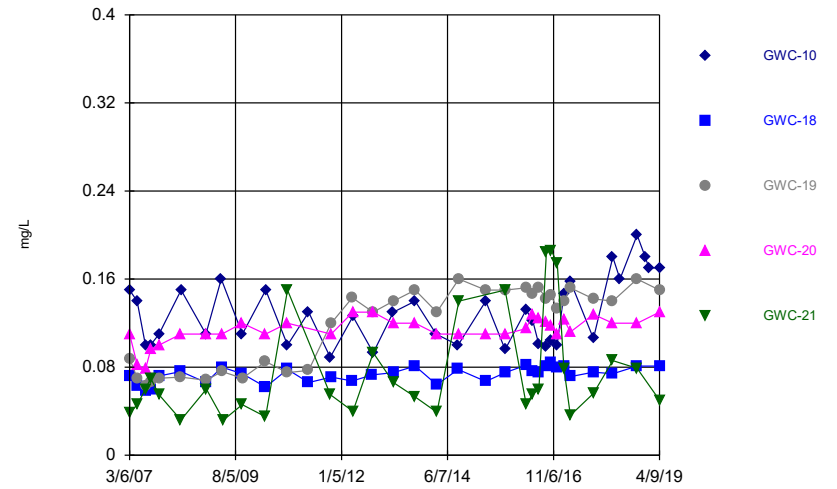
Constituent: Arsenic Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



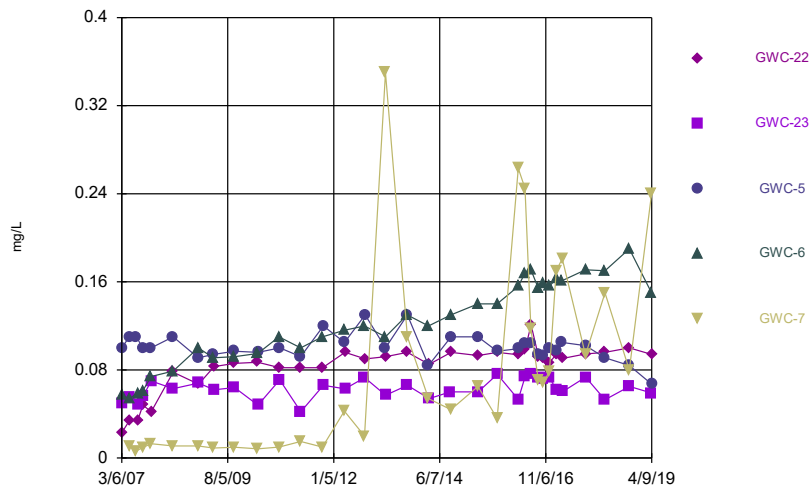
Constituent: Barium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



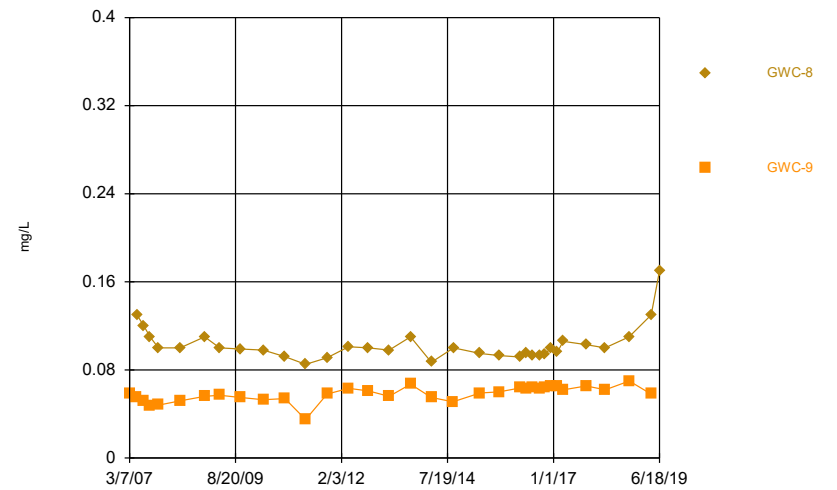
Constituent: Barium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



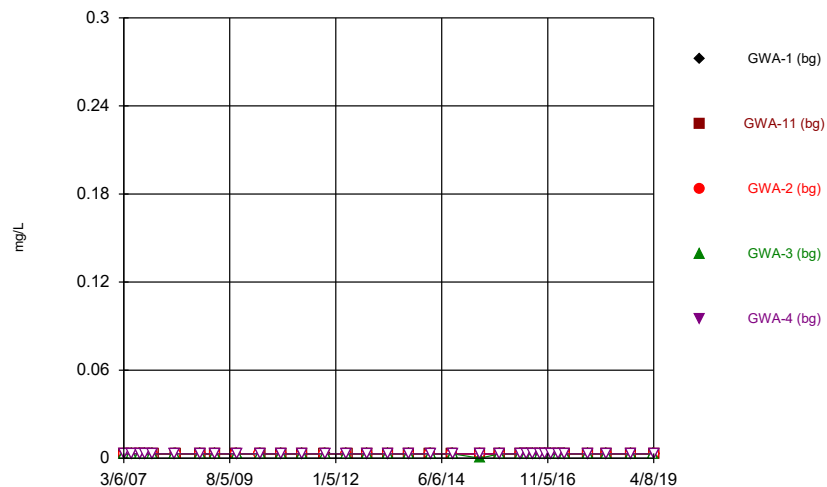
Constituent: Barium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



Constituent: Barium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



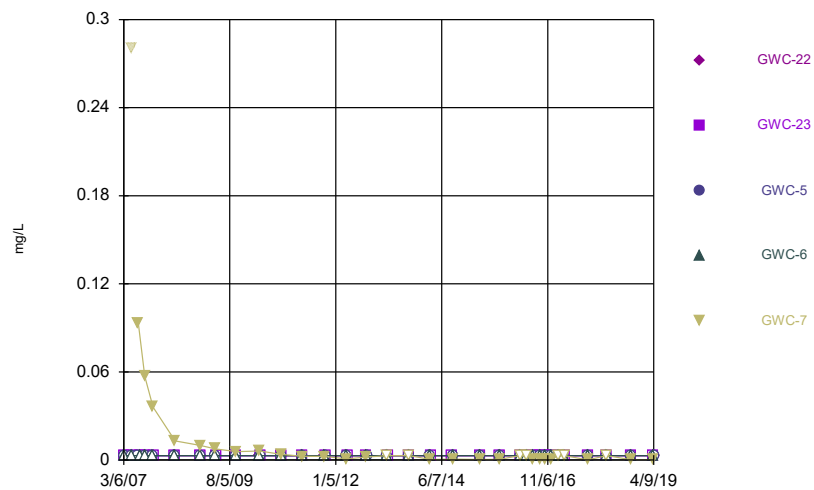
Constituent: Beryllium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



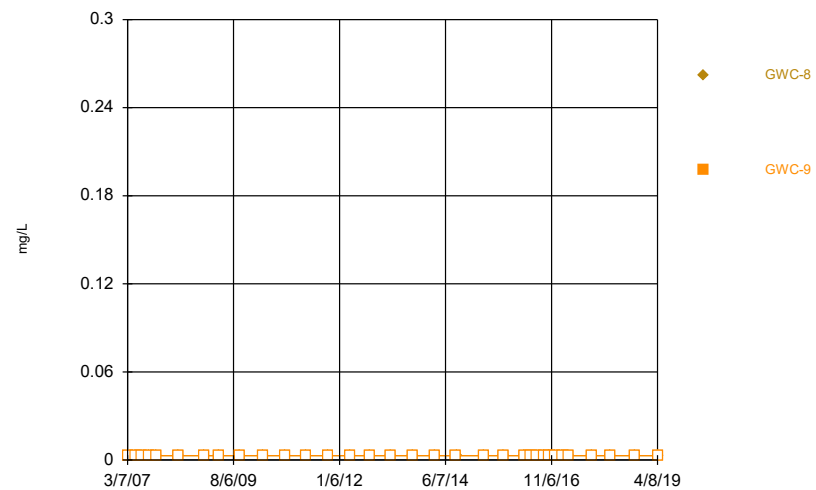
Constituent: Beryllium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



Constituent: Beryllium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

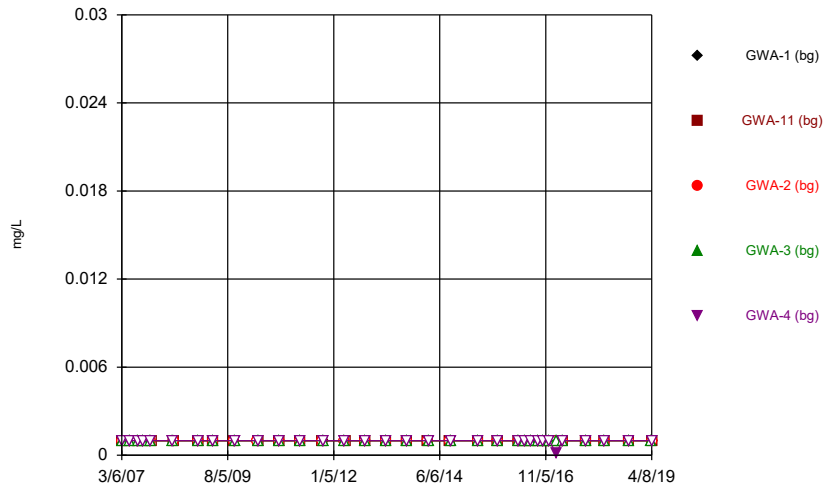
### Time Series



Constituent: Beryllium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

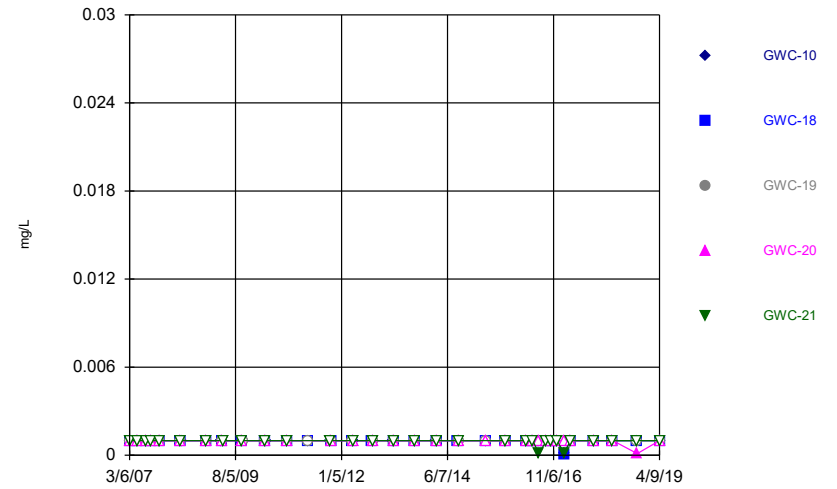


Time Series



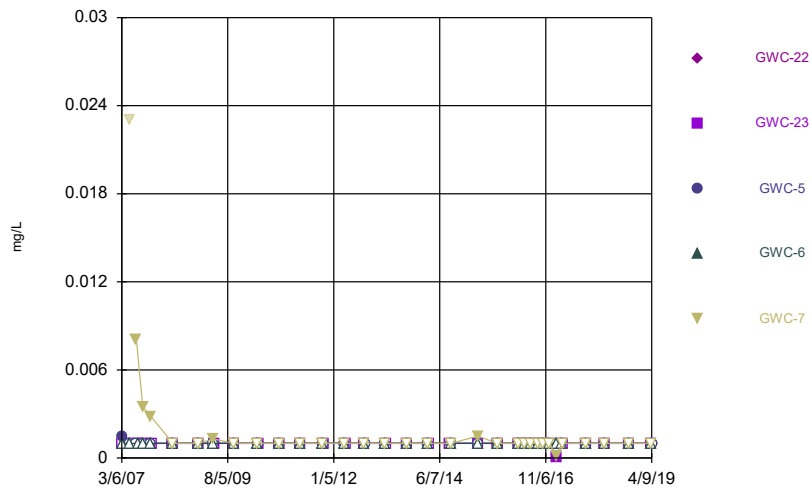
Constituent: Cadmium Analysis Run 8/16/2019 8:54 AM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



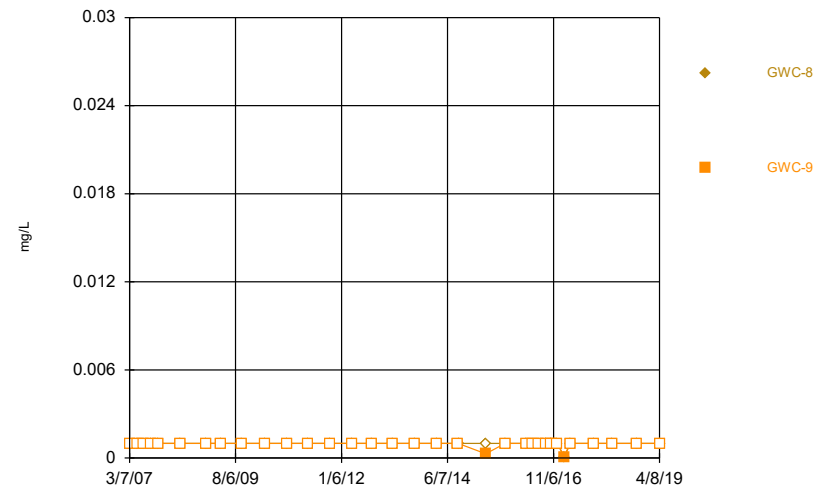
Constituent: Cadmium Analysis Run 8/16/2019 8:54 AM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



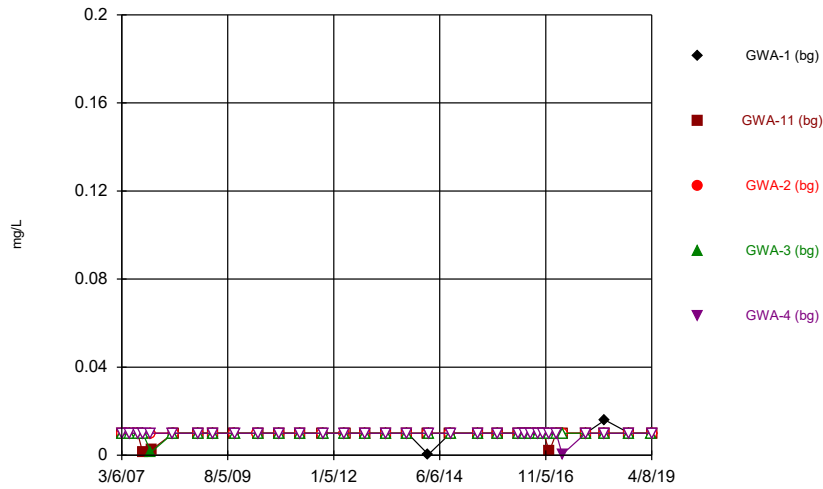
Constituent: Cadmium Analysis Run 8/16/2019 8:54 AM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



Constituent: Cadmium Analysis Run 8/16/2019 8:54 AM  
 Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

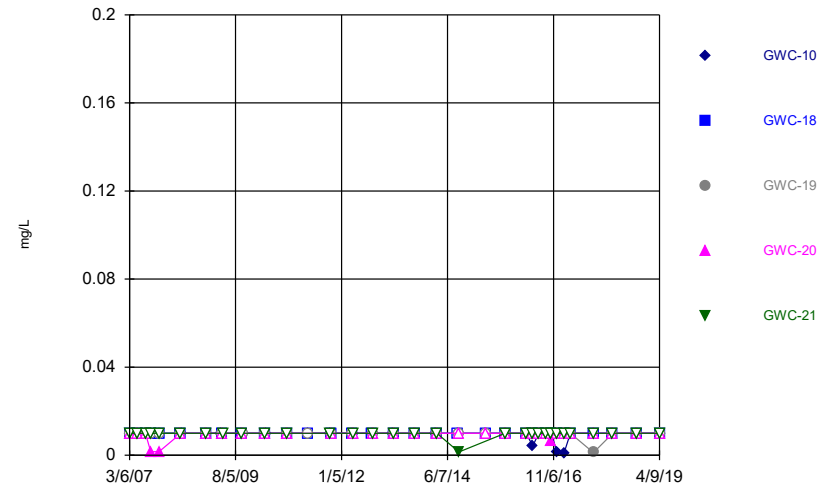
### Time Series



Constituent: Chromium Analysis Run 8/16/2019 8:54 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

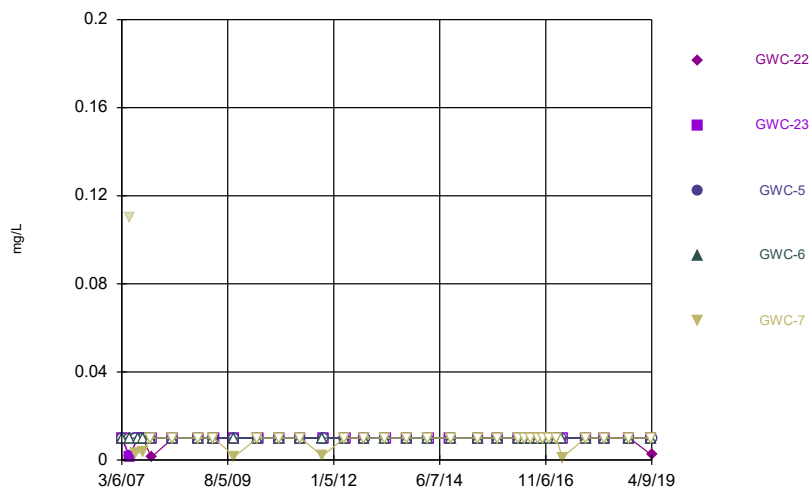
### Time Series



Constituent: Chromium Analysis Run 8/16/2019 8:54 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

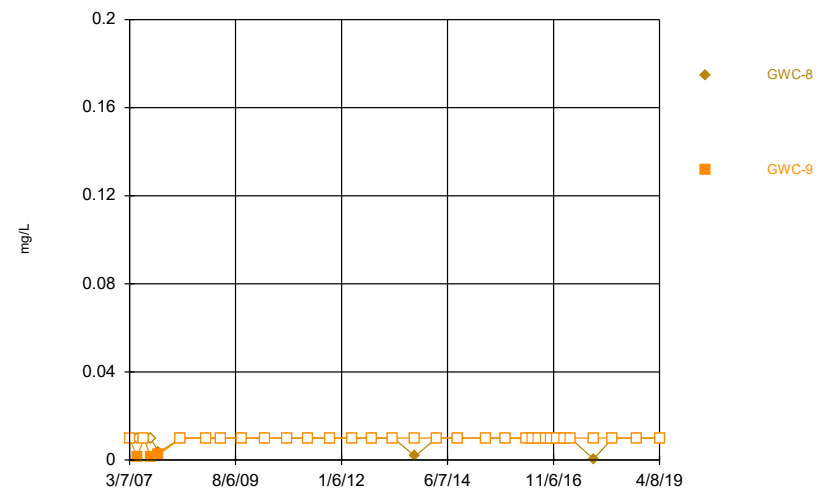
### Time Series



Constituent: Chromium Analysis Run 8/16/2019 8:54 AM

Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

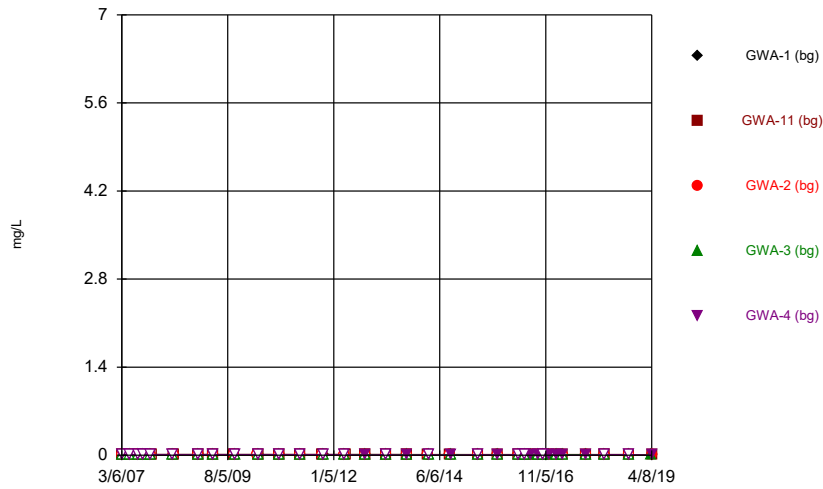
### Time Series



Constituent: Chromium Analysis Run 8/16/2019 8:54 AM

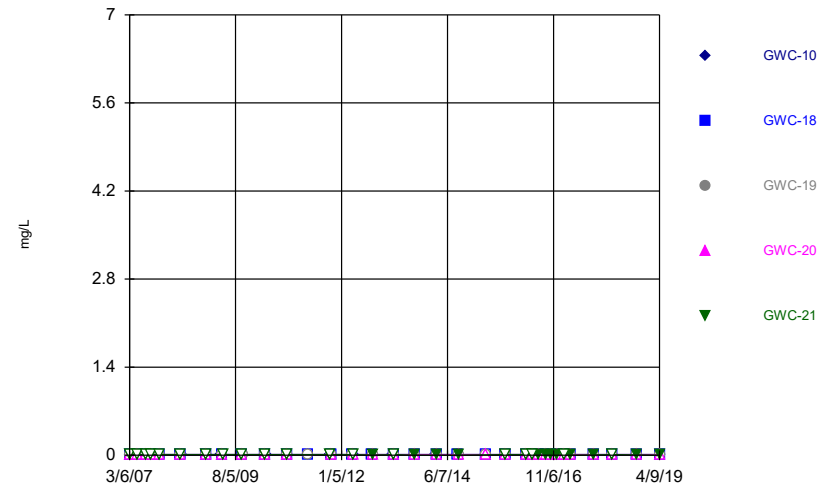
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



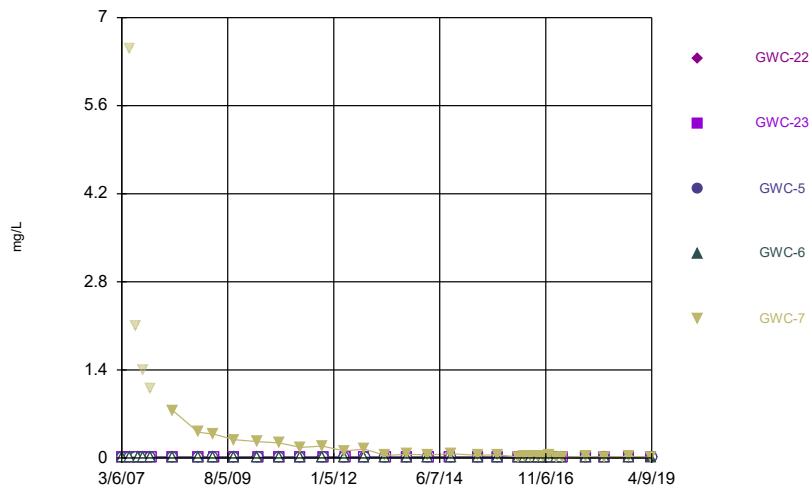
Constituent: Cobalt Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



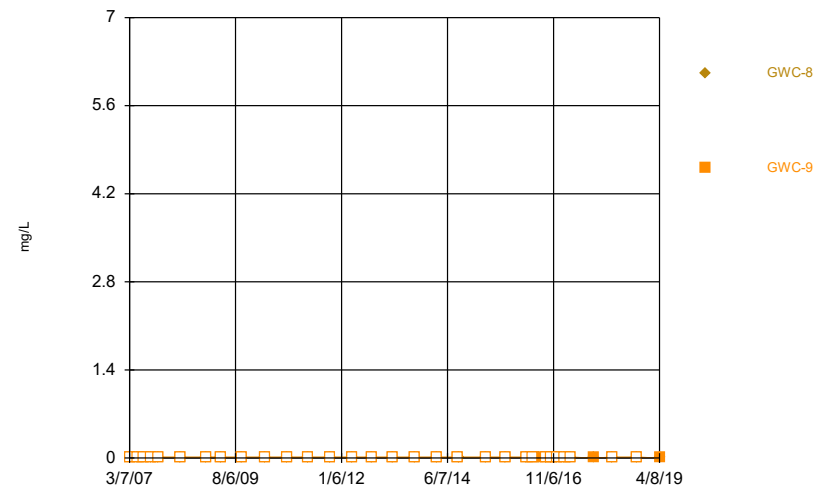
Constituent: Cobalt Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



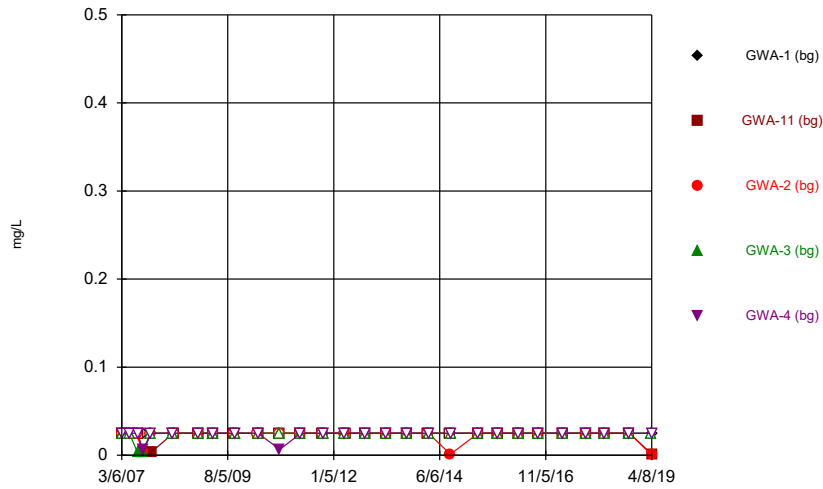
Constituent: Cobalt Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



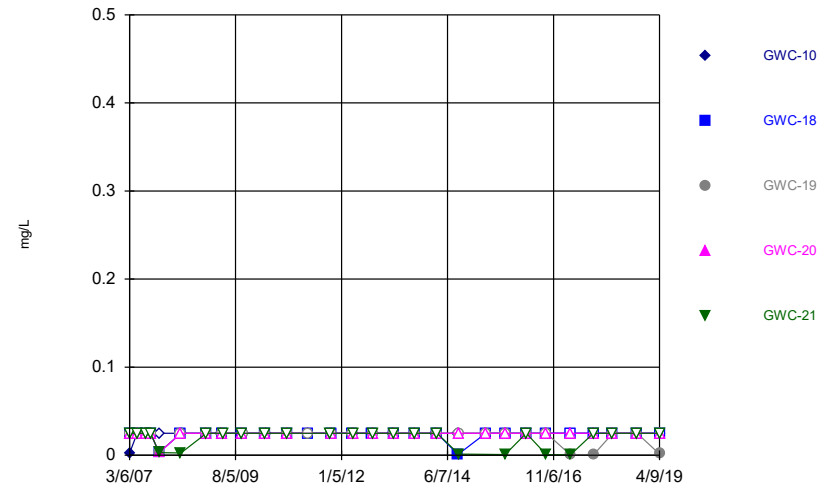
Constituent: Cobalt Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



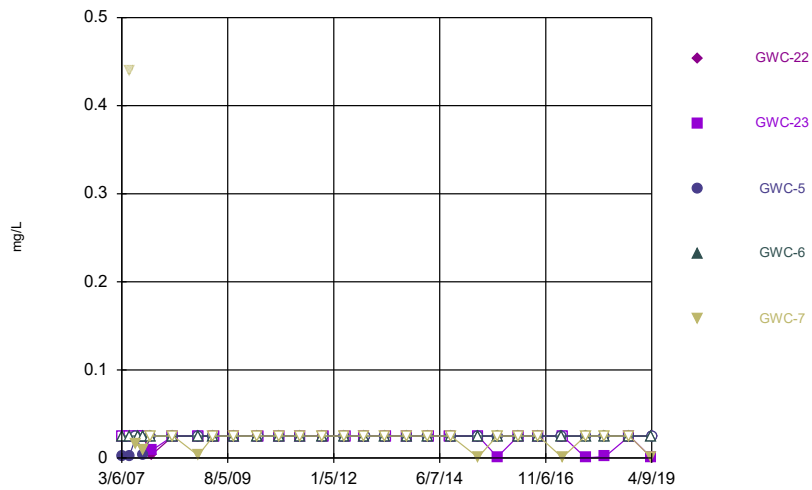
Constituent: Copper Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



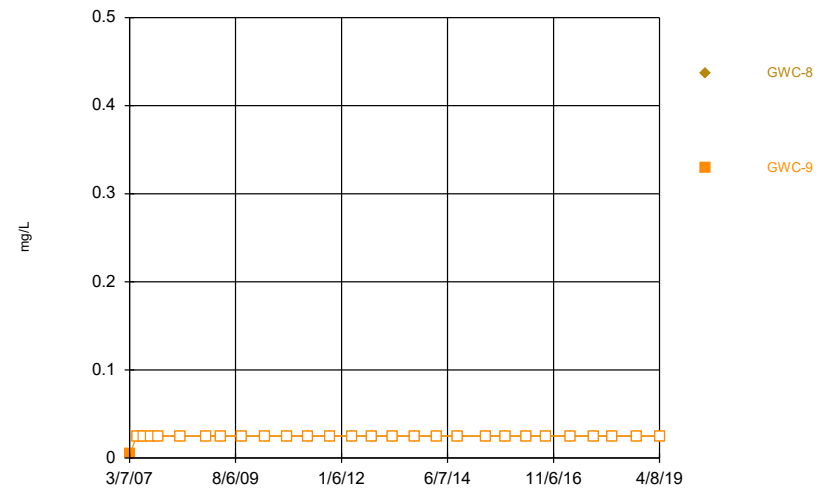
Constituent: Copper Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



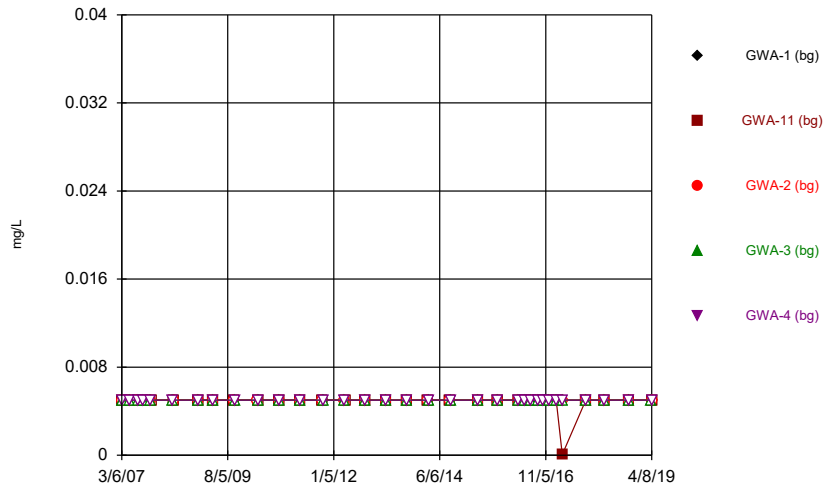
Constituent: Copper Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



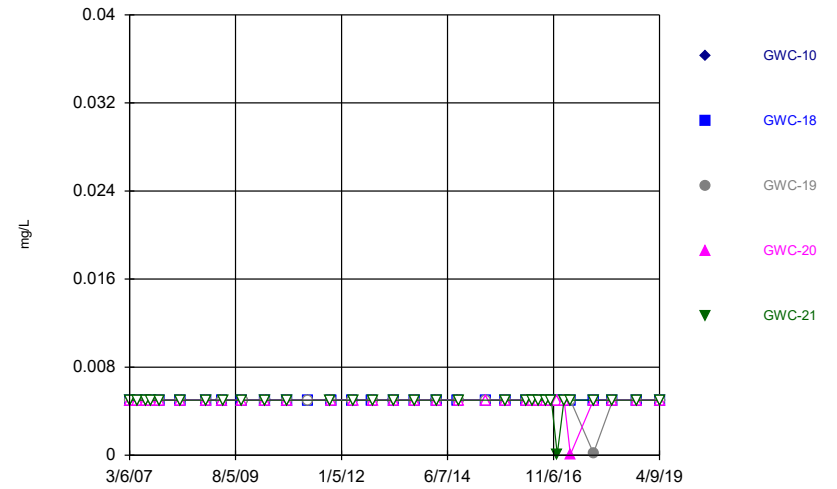
Constituent: Copper Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



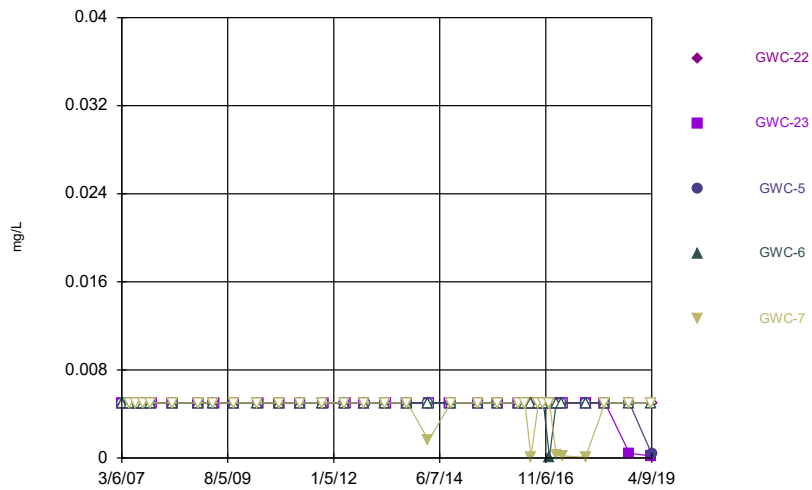
Constituent: Lead Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



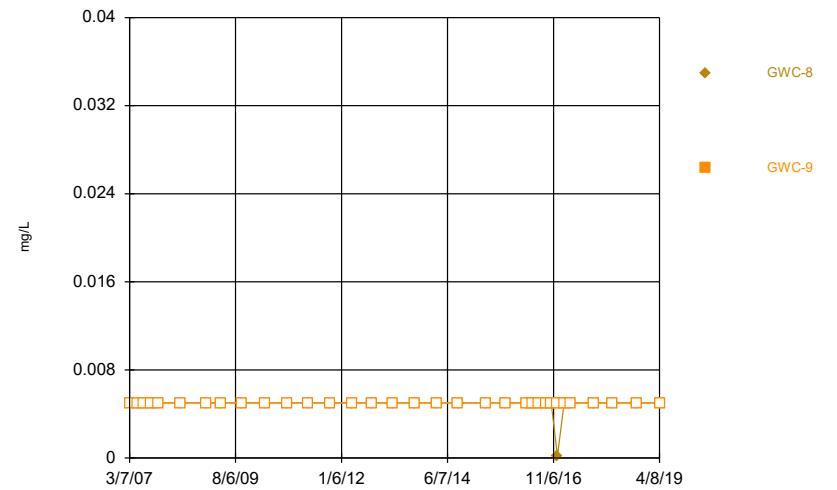
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Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



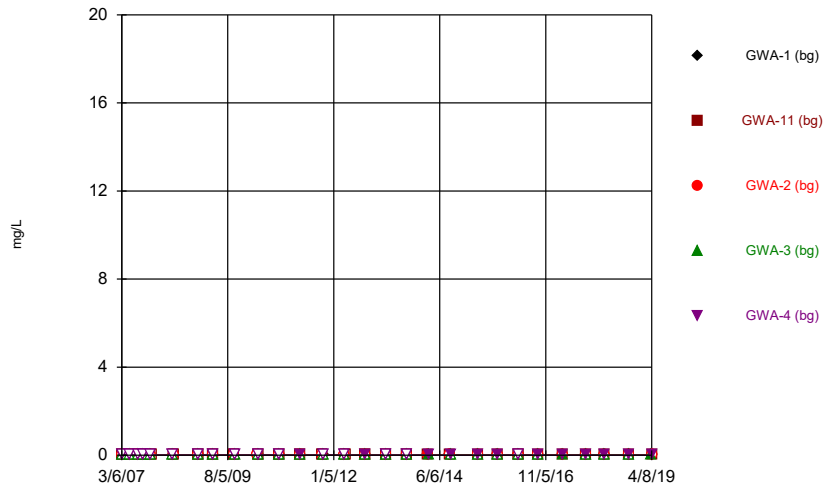
Constituent: Lead Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



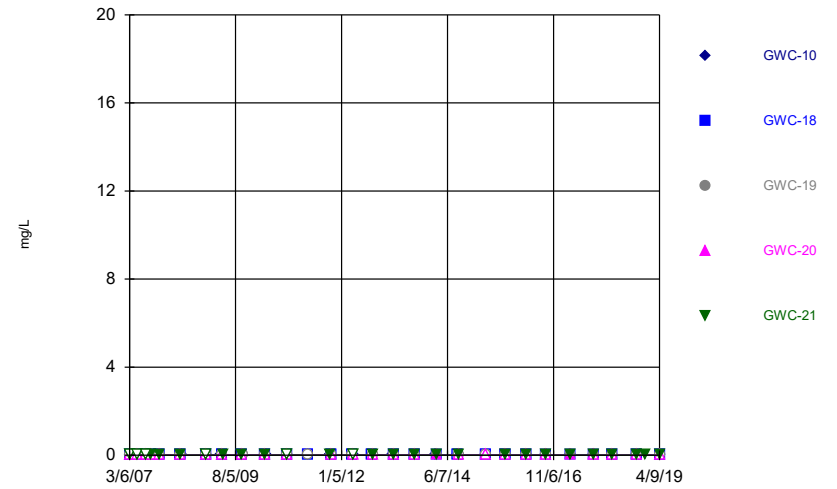
Constituent: Lead Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



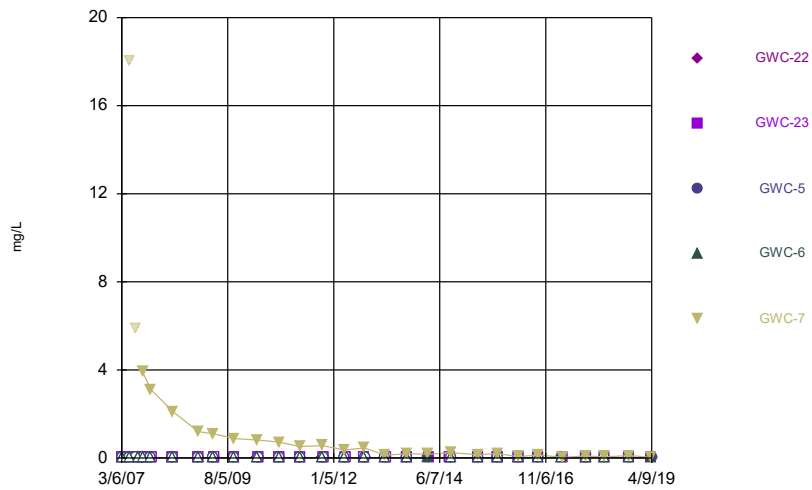
Constituent: Nickel Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



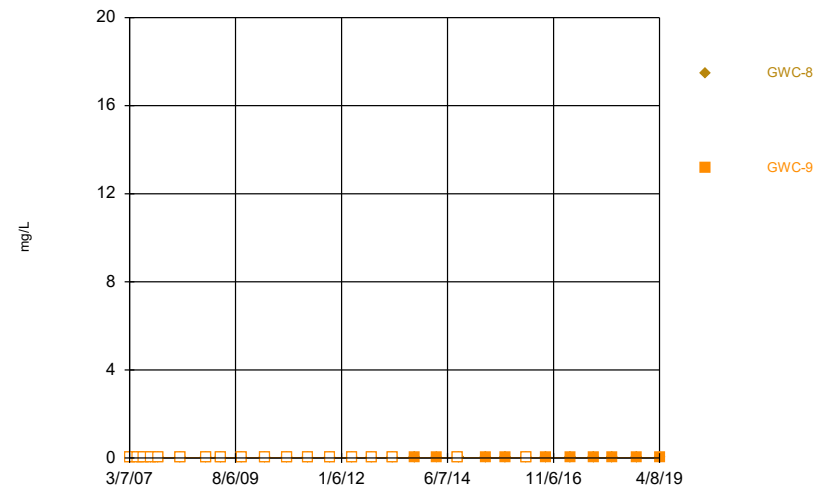
Constituent: Nickel Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



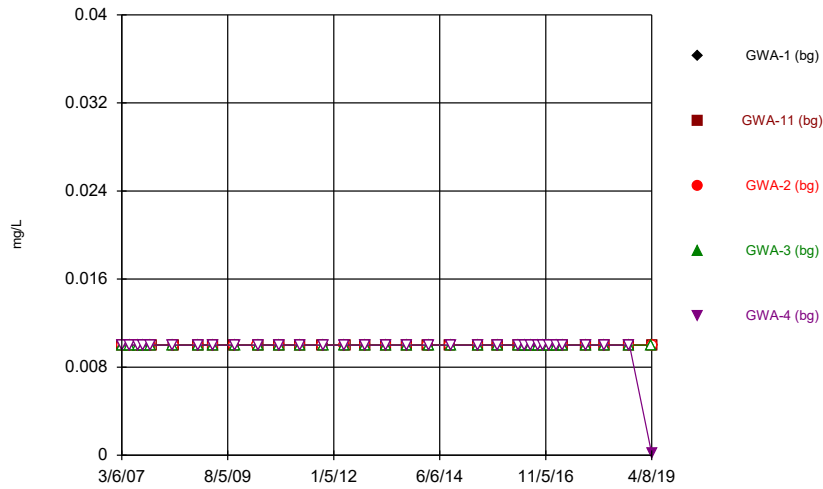
Constituent: Nickel Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



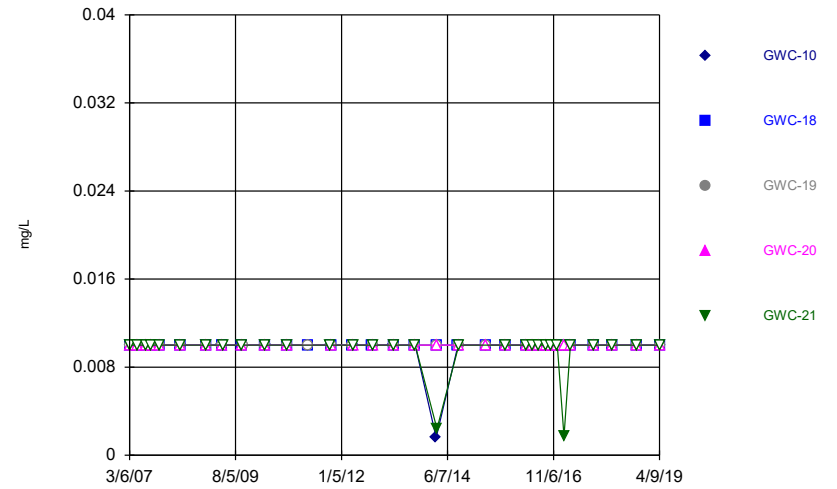
Constituent: Nickel Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



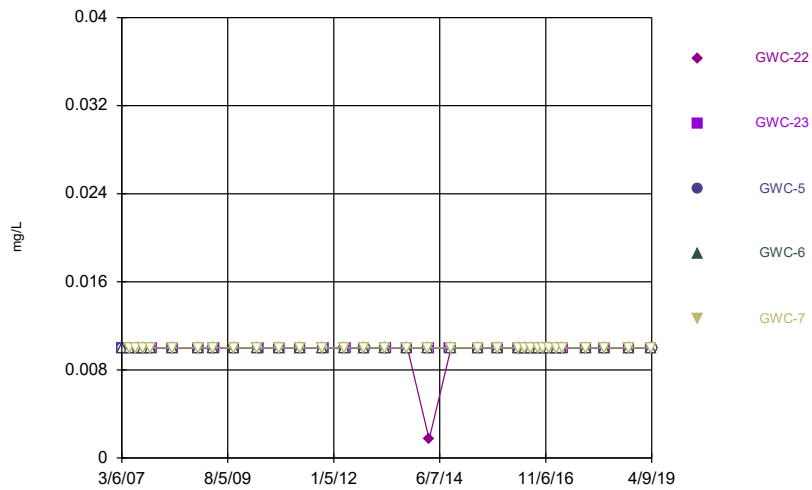
Constituent: Selenium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



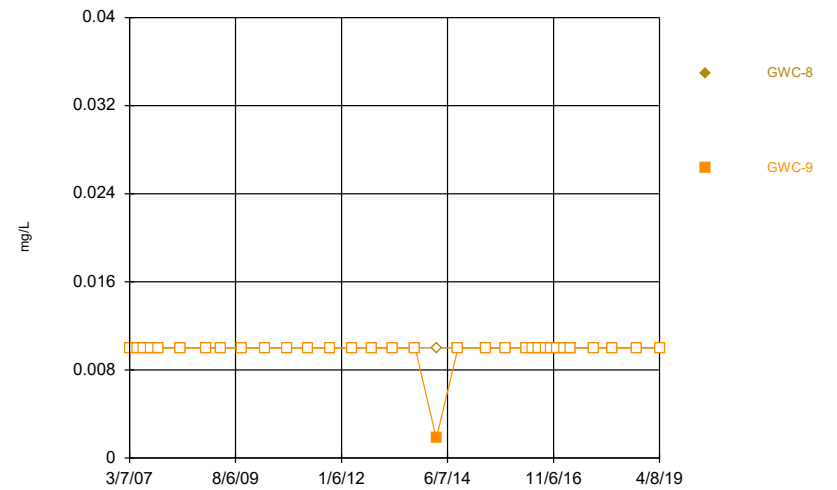
Constituent: Selenium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



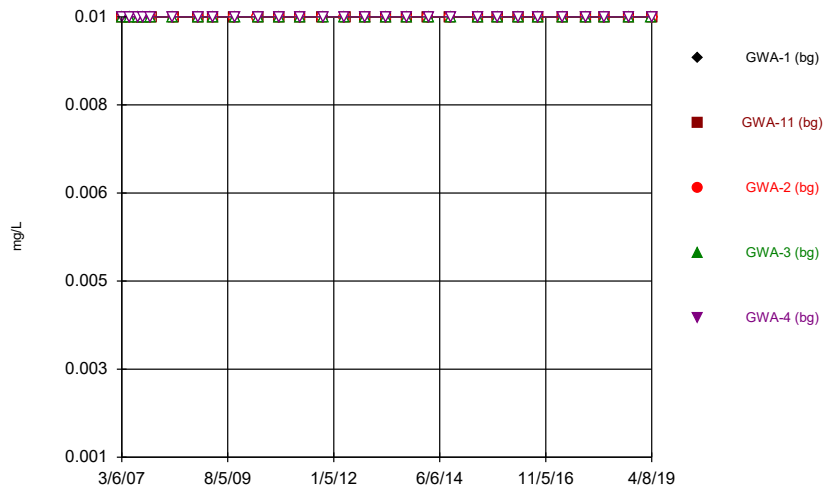
Constituent: Selenium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



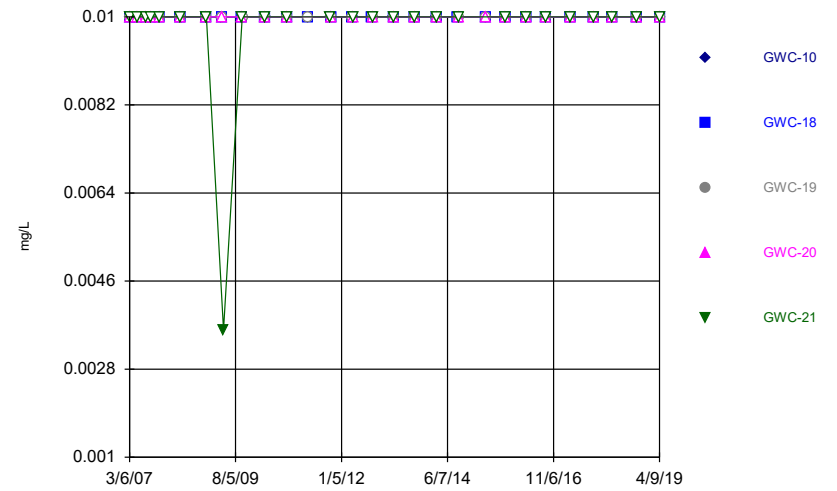
Constituent: Selenium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



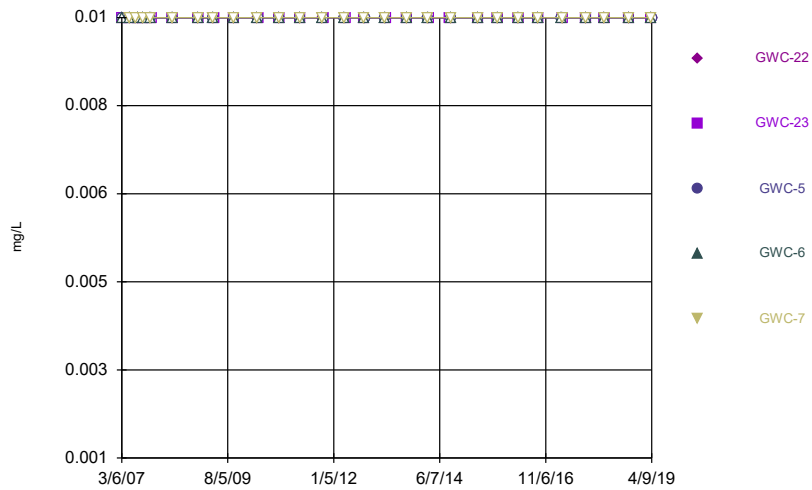
Constituent: Silver Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



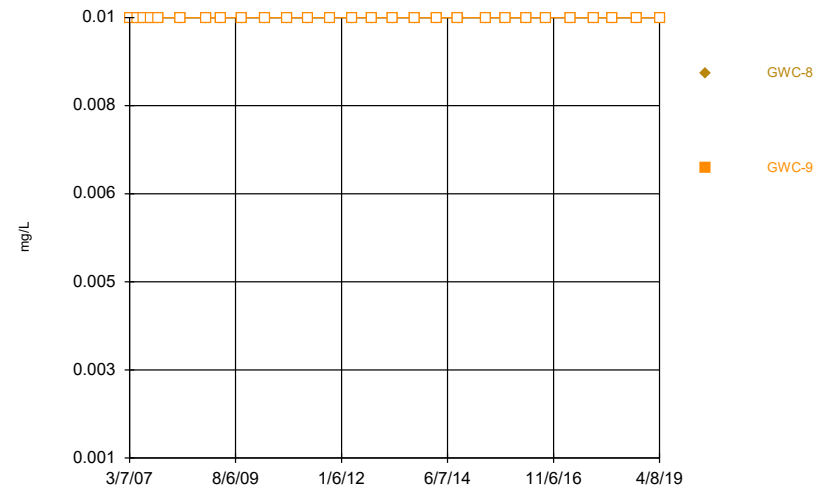
Constituent: Silver Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



Constituent: Silver Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

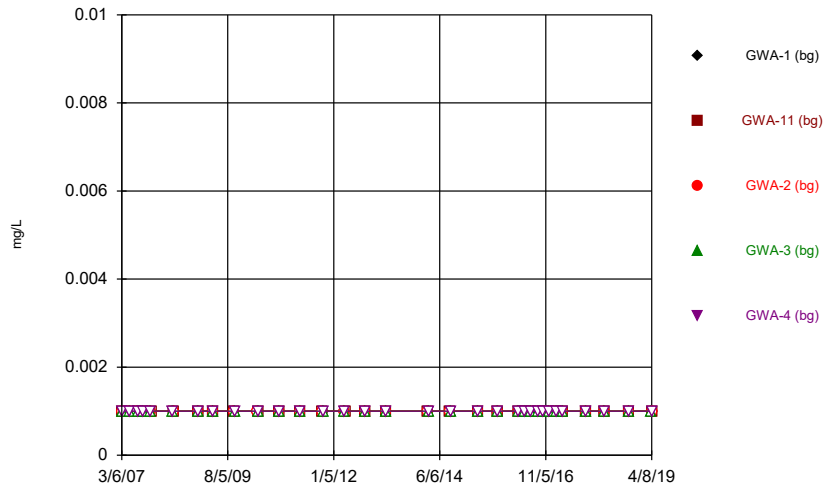
### Time Series



Constituent: Silver Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

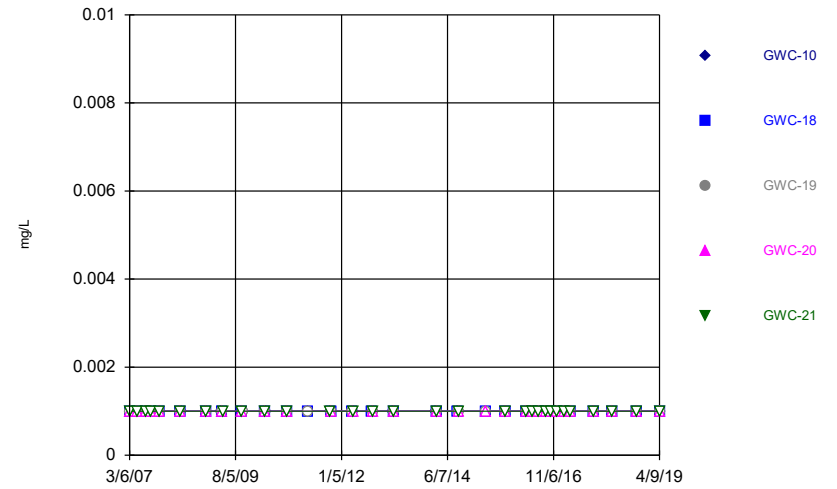


### Time Series



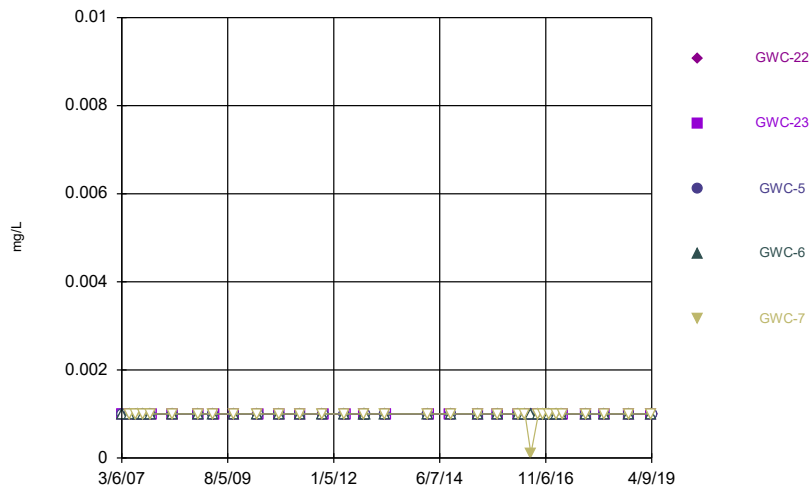
Constituent: Thallium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



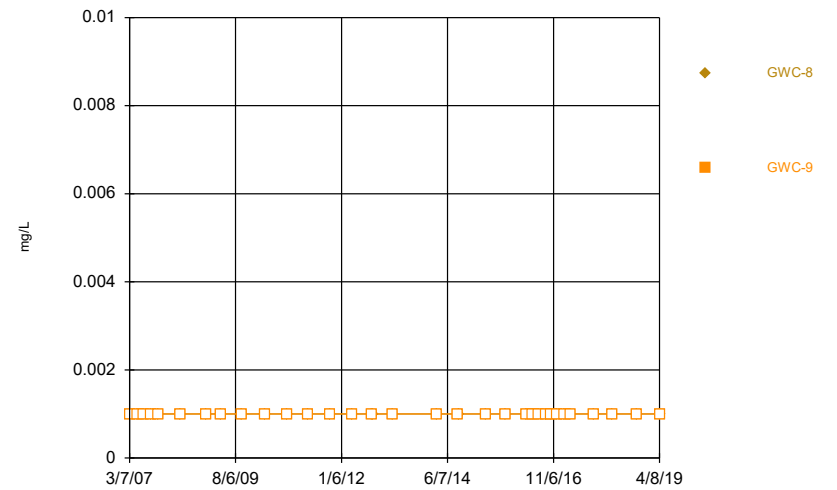
Constituent: Thallium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



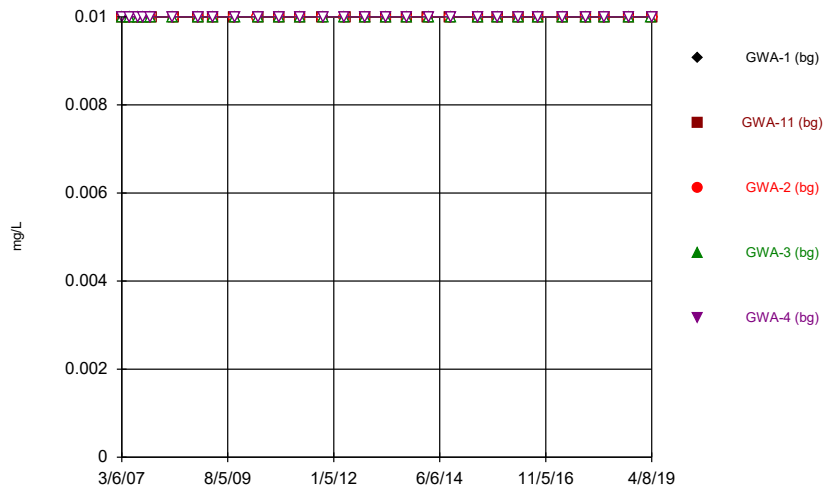
Constituent: Thallium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



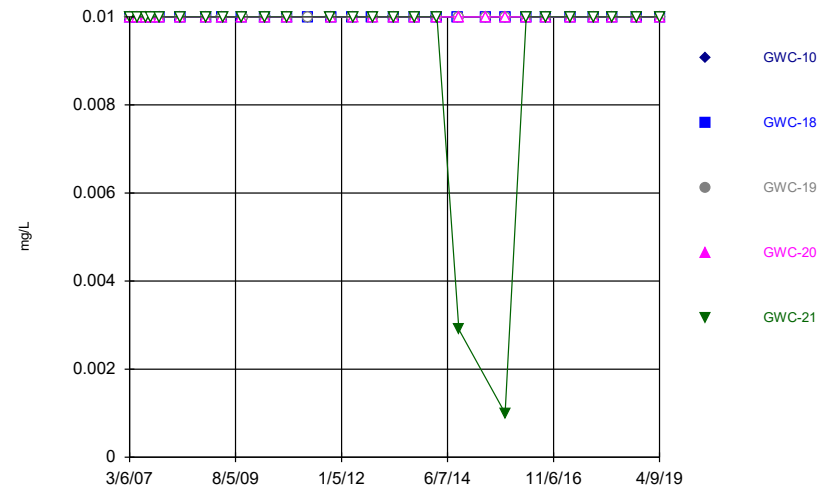
Constituent: Thallium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



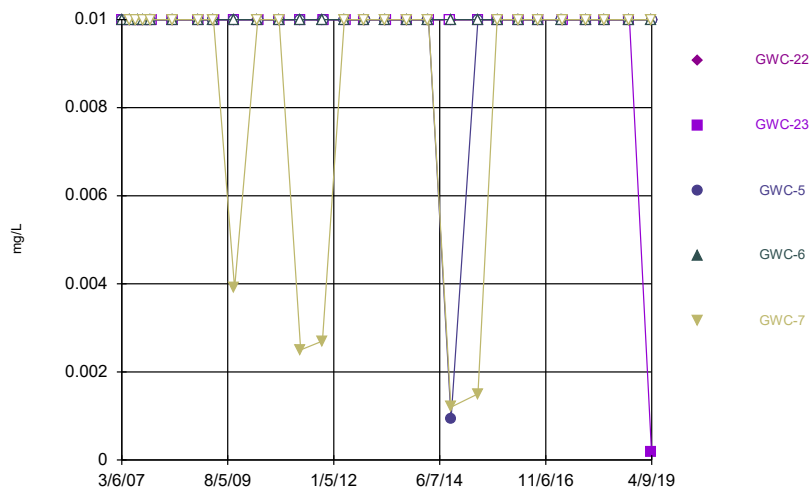
Constituent: Vanadium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



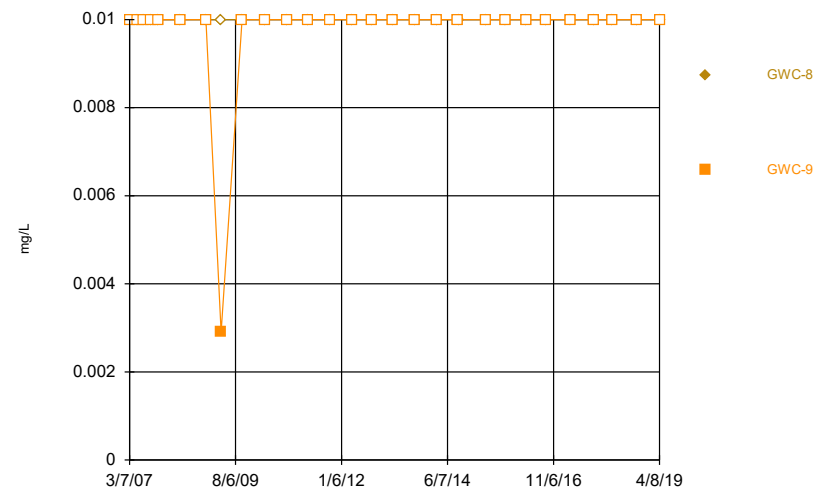
Constituent: Vanadium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



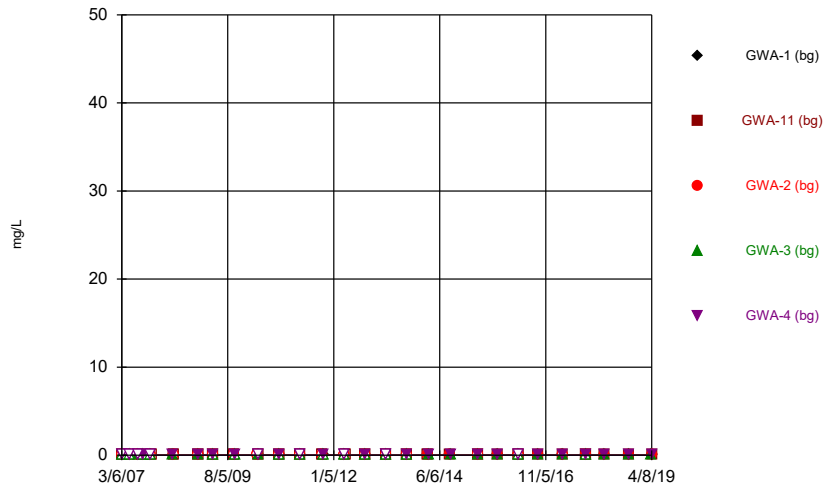
Constituent: Vanadium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

Time Series



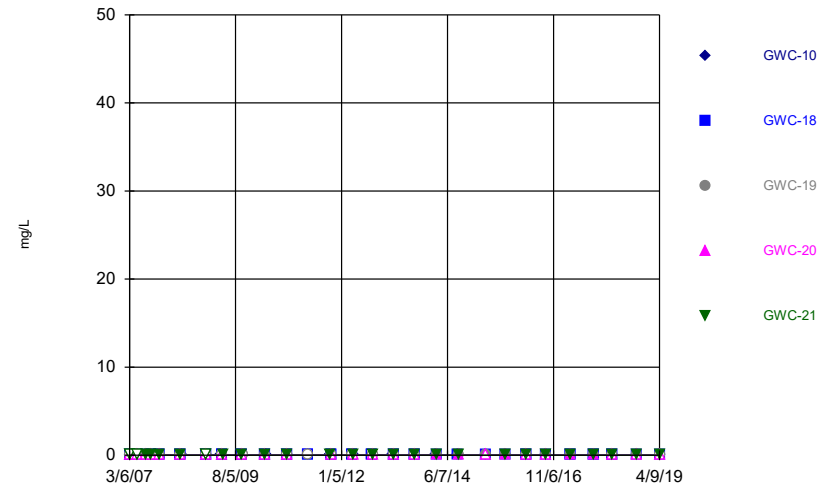
Constituent: Vanadium Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



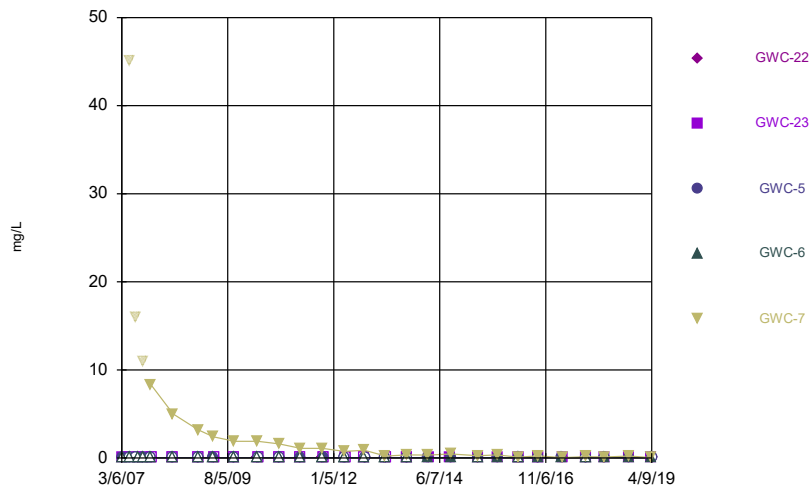
Constituent: Zinc Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



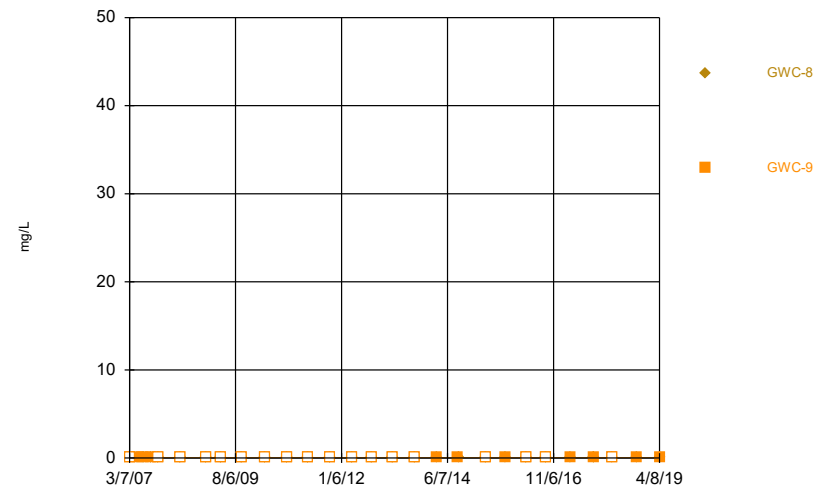
Constituent: Zinc Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



Constituent: Zinc Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill

### Time Series



Constituent: Zinc Analysis Run 8/16/2019 8:54 AM  
Plant Hammond Client: Georgia Power Company Data: Huffaker Road Landfill